



Power Backup Solution



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About Us

Prolink Brand UPS CATALOGUE | Version 2.0 | September 2023

OUR STORY

Looking back...

Fida International (S) Pte Ltd has been a provider of technologically innovative and user-friendly products manufactured under the brand name "Prolink" since 1991. With more than two decades of professional experience in the information communications sector, Prolink is now renowned as a specialist in its field, especially in the area of Back-up UPS products.

Over the years, Prolink has built its presence through a strong foundation of technological leadership within the South Asian, South-east Asian and Middle Eastern regions and is continuing to build its presence worldwide. With its current network of sales offices in more than 20 countries, customers can be assured that Prolink is able to provide the right solutions to meet the needs of both home and business users within each geographical location both efficiently and effectively.

The company's quest for continuous improvement and quality assurance to its customers has earned us the ISO9001 quality certification since 1999. With its consistently strong commitment to quality, customers can be assured that they are getting true value - superior quality products at affordable prices.

OUR MISSION

ACCENTUATE THE BEST FOR THE E-GENERATION

Prolink aspires to accentuate the best for the e-generation. With technology becoming an essential aspect of modern living, the e-generation concept has gradually become ingrained in our lives and digital literacy is becoming more and more commonplace.

Prolink products are designed to make technology work for the e-generation. Created with the end-user in mind, our products are crafted to enhance performance whether you are at work or play - our products work harder, while you work smarter to achieve your desired results with less effort and better efficiency.



Providing value to our consumers - whether home or business users, remains a firm commitment of Prolink. With its wide range of quality products, Prolink makes it easy for home users to find user-friendly yet affordable solutions for their technological needs, while business users are assured of reliable and secure solutions for their network infrastructure.

OUR VISION

IDEAS, INNOVATION AND INFORMATION

Prolink aims to be the key driving force behind technological changes and improvements in both developing and developed countries. With its strong focus on technology, our team sets high standards for itself in the areas of innovation, change and improvement so as to provide the next generation of users with products that are suitable for their technology advanced environments.

The small "i" in Prolink represents ideas, innovation and information - three key pillars of growth that drive us towards achieving excellence in our field of expertise and challenges us to think beyond our usual boundaries.



About Us

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CORE VALUES

SECURED INFORMATION MANAGEMENT

With more than two decades of professional experience in providing backup power solutions to our customers, we are able to support our customers with superior technological know-how and expertise, as well as advice on market trends. At the same time, we are also fully committed to protecting the privacy of our customers and to manage confidential information discreetly.

INNOVATIVE DESIGN

Our products are carefully thought out to ensure that each item is designed to meet the needs of our customers. With the team's solid experience in the UPS market, customers can be certain that our designs are innovative yet functional, and suitable for each dynamic market that we have a presence in.

SUPERIOR SERVICE STANDARDS

Strict and rigorous testing makes up a huge part of our quality control procedures. We ensure that every item meets our strict standards – from the individual components to the actual finished product.

TOTAL QUALITY ASSURANCE SYSTEM

Our products go through careful planning and checks at every stage of the production cycle – from the beginning stages of product design to the manufacturing and finally the actual delivery of the goods. This guarantees that our customers receive only the best quality goods – of high reliability and durability. Our total quality system has been audited and approved by globally recognized bodies.



ONLINE
UNINTERRUPTIBLE
POWER SUPPLY





Professional II Series (1P/1P)-Tower

PRO900-WS/WL Series | 1~10KVA, p.f 0.8



CCTV & Security
Systems



Local Area
Network (LAN)



Work-Stations



Servers



ATM

Prolink **Professional II Series (1P/1P)** is a **single-phase UPS** system using microprocessor controlled true online double conversion technology and it can be used to provide protection for critical loads especially on IT applications. High input power factor correction in the system improves efficiency and reduces overall losses.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. Both Tower and Rack Types of UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

In addition, Emergency Power Off (EPO) function is also available to protect the personnel and the equipment in case of fire outbreak or other types of emergency.



Key Features

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.8
- Wide input voltage (110 V – 300 V)
- Converter mode available
- ECO mode for energy saving (Only available for 1-3KVA model)
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Emergency Power Off function [EPO] (Optional for 1~3kVA, Built-in for 6/10kVA)



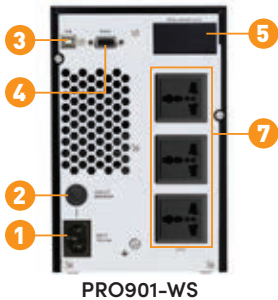
Rear Panel

1-3KVA

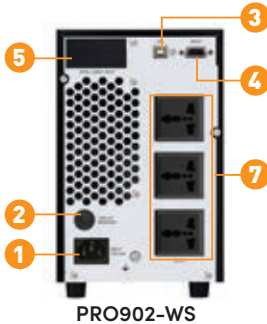
- 1. AC input
- 2. Input circuit breaker
- 3. USB communication port
- 4. RS-232 communication port

- 5. Intelligent slot
- 6. External battery connection (only available for L model)

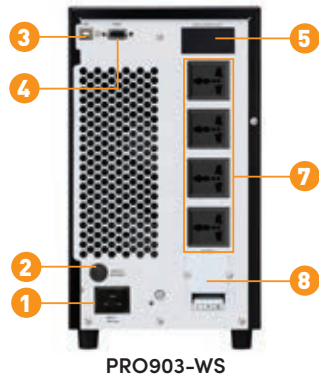
- 7. Output receptacles
- 8. Output terminal



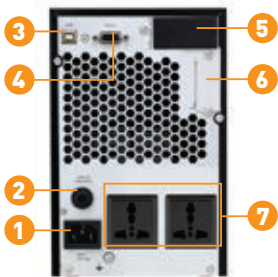
PRO901-WS



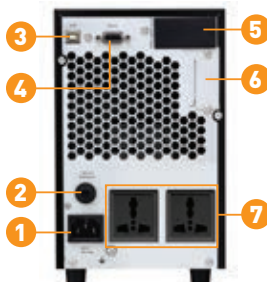
PRO902-WS



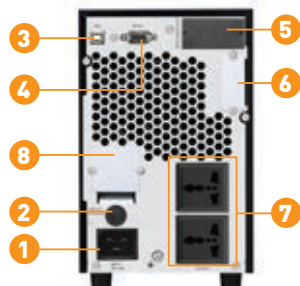
PRO903-WS



PRO901-WL



PRO902-WL



PRO903-WL

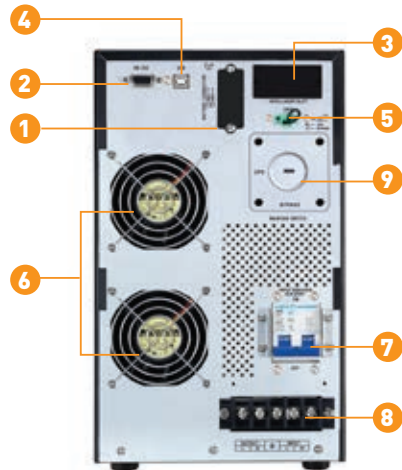
Note : IEC/NEMA/Schuko outlets options are also available.

6-10KVA

- 1. External battery connector (Only available for L model)
- 2. RS-232 communication port
- 3. Intelligent slot
- 4. USB Communication port
- 5. Emergency power off function connector (EPO connector)
- 6. Cooling fan
- 7. Input circuit breaker
- 8. Input/Output terminal
- 9. Maintenance bypass switch (Optional)



PRO906-WS / PRO910-WS



PRO906-WL / PRO910-WL


Specifications

MODEL	PRO901-WS/WL		PRO902-WS/WL			PRO903-WS/WL		
PHASE	Single phase with ground							
CAPACITY*	1000 VA / 800 W		2000 VA / 1600 W			3000 VA / 2400 W		
INPUT								
Nominal Voltage	200/208/220/230/240VAC							
Voltage Range	110-300 VAC (Based on load at 50%) 160-280VAC (Based on load at 100%)							
Frequency Range	40 Hz ~ 70 Hz							
Power Factor	≥ 0.99 @ Nominall Voltage (100% load)							
OUTPUT								
Nominal Voltage	200/208/220/230/240VAC							
Voltage Regulation (Batt. Mode)	± 1 %							
Frequency Range (Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz							
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz							
Current Crest Ratio	3:1							
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)							
Transfer Time	AC Mode to Battery Mode	Zero						
	Inverter to Bypass	4 ms (Typical)						
Waveform (Batt. Mode)	Pure Sine Wave							
Overload capability	100~110% for 10 mins, 110~130% for 1 min, 130~150% for 3 secs							
EFFICIENCY								
AC Mode	88%		88%			90%		
Battery Mode	83%		87%			88%		
ECO Mode	97% @ battery fully charged							
BATTERY								
Standard Model	Battery Type	12 V / 9 Ah		12 V / 9 Ah			12 V / 9 Ah	
	Numbers	2		4			6	
	Typical Recharge Time	4 hours recover to 90% capacity						
	Charging Current (max.)	1A						
Long-run Model**	Charging Voltage	27.4VDC ± 1%		54.7 VDC ±1%			82.1 VDC ±1%	
	Battery Type	Depending on the capacity of external batteries						
	Numbers	2	3	4	6	8	6	8
	Charging Current (max.)	1A/2A/4A/6A (Adjustable)						
Charging Voltage	27.4 VDC ± 1%	41.0 VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%	109.4 VDC ±1%	82.1 VDC ±1%	109.4 VDC ±1%	
	INDICATORS							
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators							
ALARM								
Battery Mode	Sounding every 4 seconds							
Low Battery	Sounding every second							
Overload	Sounding twice every second							
Fault	Continuously sounding							
PHYSICAL								
Standard Model	Dimension, DxWxH (mm)	282 x 145 x 220		397 x 145 x 220			421 x 190 x 318	
	Net Weight (kgs)	9.8		17			27.6	
Long-run Model**	Dimension, DxWxH (mm)	282 x 145 x 220		397 x 145 x 220				
	Net Weight (kgs)	4.1		6.8			7.4	
ENVIRONMENT								
Humidity	20-90 % RH @ 0- 40°C (Non-condensing)							
Noise Level	Less than 50dB @ 1 Meter							
SURGE PROTECTION AND FILTERING								
Surge Energy Rating (Joules)	625J							
MANAGEMENT								
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							
COMPLIANCE STANDARDS								
Safety	IEC/EN 62040-1							
EMC	IEC/EN 62040-2							
Performance	IEC/EN 62040-3							

*1-3KVA: Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 200/208VAC.

**Long-run model is only available for 200/208/220/230/240VAC systems.

Product specifications are subject to change without further notice.

100/110/115/120/127VAC input and output is available as an option for 1~3KVA



Specifications

MODEL		PRO906-WS/WL	PRO910-WS/WL
PHASE		Single phase with ground	
CAPACITY *		6000VA / 4800W	10000 VA / 8000 W
INPUT			
Nominal Voltage		208/220/230/240VAC	
Voltage Range		110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)	
Frequency Range		46~54 Hz or 56~64 Hz	
Power Factor		≥ 0.99 @ Nominall Voltage (100% load)	
OUTPUT			
Nominal Voltage		208/220/230/240VAC	
Voltage Regulation (Batt. Mode)		± 1 %	
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz	
Frequency Range (Batt. Mode)		50 Hz or 60Hz ± 0.1 Hz	
Current Crest Ratio		3:1	
Harmonic Distortion		≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)	
Transfer Time	AC Mode to Battery Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)		Pure Sine Wave	
Overload capability		100~110% for 30 mins, 110~130% for 5 min, 130~150% for 10 secs	
EFFICIENCY			
AC Mode		92%	93%
Battery Mode		90%	91%
ECO Mode		97% @ battery fully charged	
BATTERY			
Standard Model	Battery Type	12 V / 9 Ah	
	Numbers	16	
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (max.)	1 A / 2 A	
	Charging Voltage	218.4 VDC ±1%	
Long-run Model **	Battery Type	Depending on the capacity of external batteries	
	Numbers	16 ~ 20 (Adjustable)	
	Charging Current (max.)	1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries)	
	Charging Voltage	273 VDC ±1% (Based on 20pcs batteries)	
INDICATORS			
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators	
ALARM			
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every second	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Standard Model	Dimension, DxWxH (mm)	369 x 190 x 688	442 x 190 x 688
	Net Weight (kgs)	61	66
Long-run Model **	Dimension, DxWxH (mm)	369 x 190 x 318	442 x 190 x 318
	Net Weight (kgs)	12	16
ENVIRONMENT			
Humidity		0-95% RH @ 0-40°C (non-condensing)	0-95% RH @ 0-40°C (non-condensing)
Noise Level		Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
SURGE PROTECTION AND FILTERING			
Surge Energy Rating (Joules)		1080J	
MANAGEMENT			
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC	
Optional SNMP		Power management from SNMP manager and web browser	
COMPLIANCE STANDARDS			
Safety		IEC/EN 62040-1	
EMC		IEC/EN 62040-2	
Performance		IEC/EN 62040-3	

6-10KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC.

Product specifications are subject to change without further notice.

20 blocks battery option is available for 6/10KVA Standard models



Professional II Series (1P/1P) Rack/Tower Type

PRO900-WRS/WRL SERIES | 1~10KVA, p.f 0.8



CCTV & Security
Systems



Local Area
Network (LAN)



Work-Stations



Servers



Prolink **Professional II Series (1P/1P) Rack/Tower** is a single-phase UPS system using microprocessor controlled true online double conversion technology and it can be used to provide protection for critical loads especially on IT applications. High input power factor correction in the system improves efficiency and reduces overall losses.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. Both Tower and Rack Types of UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

In addition, Emergency Power Off (EPO) function is also available to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

Key Features

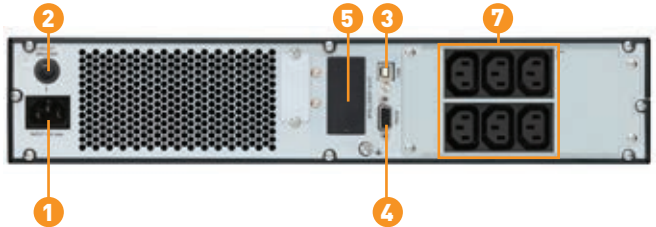
- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.8
- Wide input voltage (110 V – 300 V)
- Converter mode available
- ECO mode for energy saving (Only available for 1-3KVA model)
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Emergency power off function (EPO) (Optional for 1~3kVA, Built-in for 6/10kVA)
- Hot-swappable battery design (1~3KVA)

Rear Panel

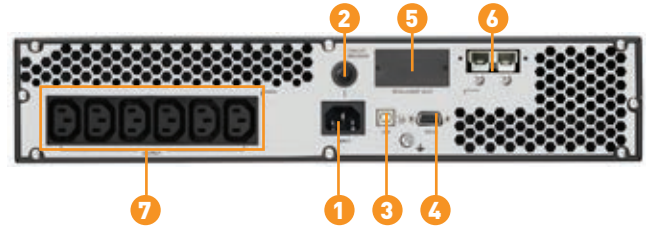
1-3KVA

- 1. AC input
- 2. Input circuit breaker
- 3. USB communication port
- 4. RS-232 communication port

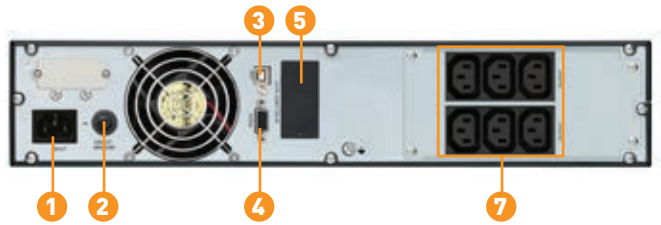
- 5. Intelligent slot
- 6. External battery connection (only available for L model)
- 7. Output receptacles
- 8. Output terminal



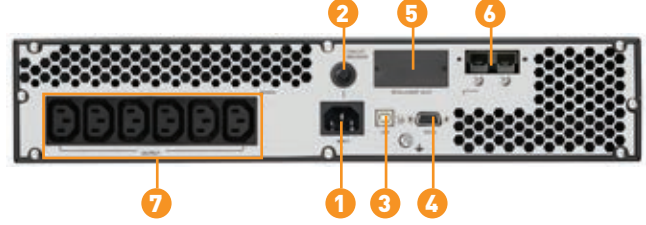
PRO901-WRS



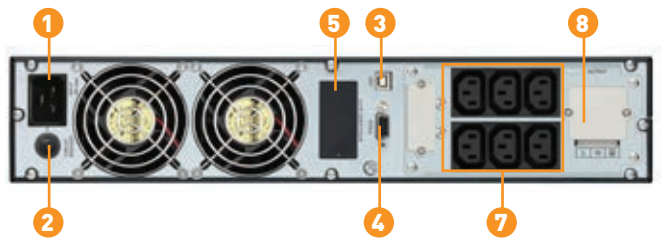
PRO901-WRL



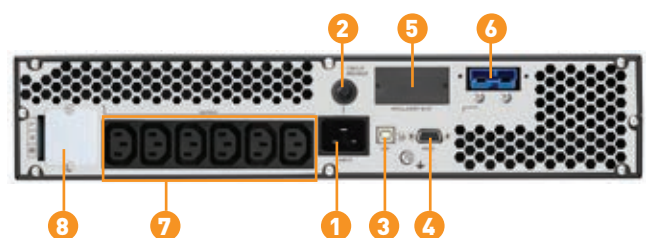
PRO902-WRS



PRO902-WRL



PRO903-WRS

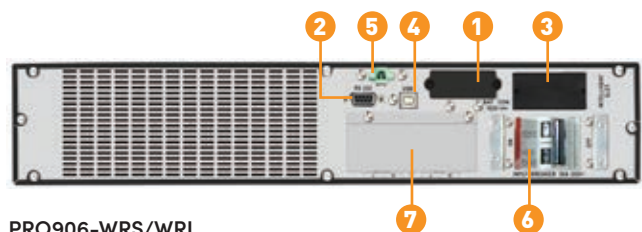


PRO903-WRL

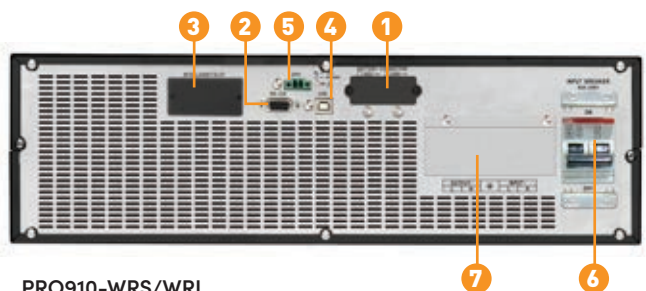
6-10KVA

- 1. External battery connector
- 2. RS-232 communication port
- 3. Intelligent slot
- 4. USB communication port

- 5. Emergency power off function connector (EPO connector)
- 6. Input circuit breaker
- 7. Input/Output terminal



PRO906-WRS/WRL



PRO910-WRS/WRL

Specifications


MODEL	PRO901-WRS/WRL	PRO902-WRS/WRL	PRO903-WRS/WRL	PRO906-WRS/WRL	PRO910-WRS/WRL										
PHASE	Single phase with ground														
CAPACITY	1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W	6000 VA / 4800 W	10000 VA / 8000 W										
INPUT															
Nominal Voltage	200/208/220/230/240VAC			208/220/230/240VAC											
Voltage Range	110-300 VAC at 50% load 160-280 VAC at 100% load			110-300 VAC ± 3% at 50% Load 176-300 VAC ± 3% at 100% Load											
Frequency Range	40Hz ~ 70 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz											
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)														
OUTPUT															
Nominal Voltage	200/208/220/230/240VAC			208/220/230/240VAC											
Voltage Regulation (Batt. Mode)	± 1%			± 1%											
Frequency Range (Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz											
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz			50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz											
Current Crest Ratio	3:1														
Harmonic Distortion	≤ 3 % THD (Linear Load), ≤ 6 % THD (Non-linear Load)			≤ 3 % THD (Linear Load), ≤ 5 % THD (Non-linear Load)											
Transfer Time	AC Mode to Battery Mode Inverter to Bypass		Zero 4 ms (Typical)		0 ms 0 ms										
Waveform (Batt. Mode)	Pure Sine Wave														
Overload capability	100~110% for 10 mins, 110~130% for 1 min, 130~150% for 3 secs			100~110% for 30 mins, 110~130% for 5 min, 130~150% for 10 secs											
EFFICIENCY															
AC Mode	88%	89%	90%	92%	93%										
Battery Mode	83%	87%	88%	90%	91%										
ECO Mode	97% @ battery fully charged														
BATTERY															
Standard Model	Battery Type	12 V / 9 AH		12 V / 9 AH		12 V / 9 AH		12 V / 9 AH							
	Numbers	2		4		6		16							
	Typical Recharge Time	4 hours recover to 90% capacity								9 hours recover to 90% capacity					
	Charging Current	1.0 A								1A/2A (Adjustable)					
Long-run Model	Battery Type	Depending on the capacity of external batteries								Depending on applications					
	Numbers	2	3	4	6	8	6	8	16 - 20 pcs (Adjustable)						
	Charging Current (max.)	1.0A/2.0A/4.0A/6.0 A								1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries)					
	Charging Voltage	27.4VDC ± 1%	41.0VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	109.4VDC ± 1%	82.1 VDC ± 1%	109.4VDC ± 1%	218.4 VDC ± 1% (Based on 16pcs batteries)						
INDICATORS						LCD Panel				UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
ALARM						Battery Mode				Sounding every 4 seconds					
						Low Battery				Sounding every second					
						Overload				Sounding twice every second					
						Fault				Continuously sounding					
PHYSICAL						Standard Model				Dimension, D x W x H (mm)	310 x 438 x 88 [2U]	410 x 438 x 88 [2U]	630 x 438 x 88 [2U]	UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U]	UPS Unit: 580x438x133[3U] Battery Pack: 668x438x88 [2U]
										Net Weight (kgs)	12	19	29.3	UPS Unit: 15 Battery Pack: 48	UPS Unit: 18 Battery Pack: 51
						Long-run Model*				Dimension, D x W x H (mm)	310 x 438 x 88 [2U]	410 x 438 x 88 [2U]	530 x 438 x 88 [2U]	580 x 438 x 133 [3U]	
										Net Weight (kgs)	9	12	14.2	15	18
ENVIRONMENT						Humidity				20-90 % RH @ 0- 40°C (non-condensing)	0-95 % RH @ 0- 40°C (non-condensing)				
						Noise Level				Less than 50dB @ 1 Meter		Less than 55dB @ 1 Meter		Less than 58dB @ 1 Meter	
MANAGEMENT						Smart RS-232 / USB				Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC					
						Optional SNMP				Power management from SNMP manager and web browser					
COMPLIANCE STANDARDS						Safety				IEC/EN 62040-1					
						EMC				IEC/EN 62040-2					
						Performance				IEC/EN 62040-3					

*Long-run model is only available for 200/208/220/230/240VAC systems.

**Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 200/208VAC.

Product specifications are subject to change without further notice.

100/110/115/120/127VAC input and output is available as an option for 1~3KVA



Professional II+ Series (1P/1P)-Tower

PRO900-ES/EL SERIES | 1~10KVA, p.f 0.9



CCTV & Security
Systems



Local Area
Network (LAN)



Work-Stations



Servers



ATM

Prolink **Professional II+ Series (1P/1P)** is a **single-phase UPS** system using microprocessor controlled true online double conversion technology and it can be used to provide protection for critical loads especially on IT applications. High input power factor correction in the system improves efficiency and reduces overall losses.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. Both Tower and Rack Types of UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

In addition, Emergency Power Off (EPO) function is also available to protect the personnel and the equipment in case of fire outbreak or other types of emergency.



Key Features

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage (110 V – 300 V)
- Converter mode available
- ECO mode for energy saving (Only available for 1-3KVA model)
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Emergency Power Off function [EPO]
(Optional for 1~3kVA, Built-in for 6/10kVA)

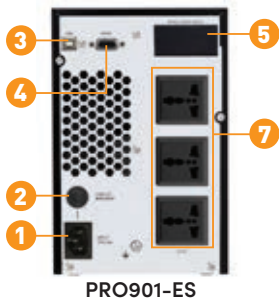
Rear Panel

1-3KVA

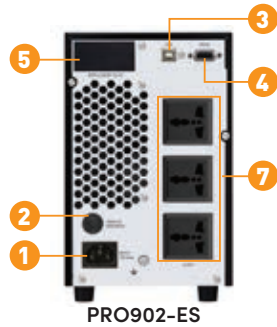
- 1. AC input
- 2. Input circuit breaker
- 3. USB communication port
- 4. RS-232 communication port

- 5. Intelligent slot
- 6. External battery connection (only available for L model)

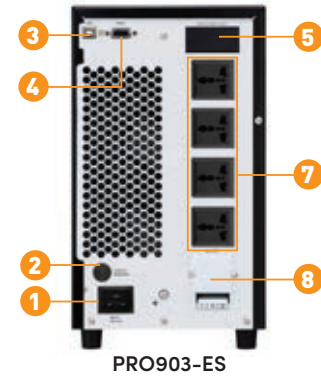
- 7. Output receptacles
- 8. Output terminal
- 9. Cooling fan



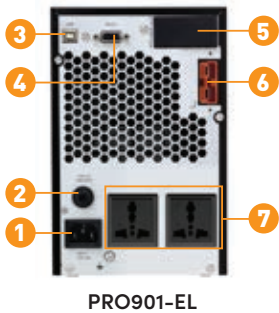
PRO901-ES



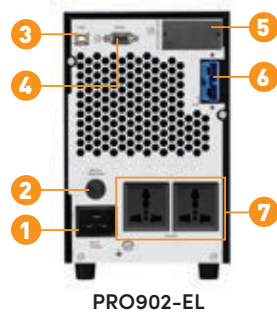
PRO902-ES



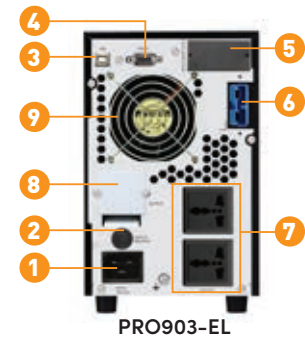
PRO903-ES



PRO901-EL



PRO902-EL



PRO903-EL

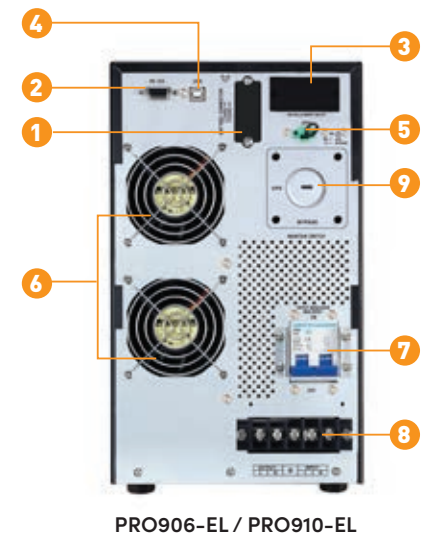
Note : IEC/NEMA/Schuko outlets options are also available.

6-10KVA

- 1. External battery connector (Only available for L model)
- 2. RS-232 communication port
- 3. Intelligent slot
- 4. USB Communication port
- 5. Emergency power off function connector (EPO connector)
- 6. Cooling fan
- 7. Input circuit breaker
- 8. Input/Output terminal
- 9. Maintenance bypass switch (Optional)



PRO906-ES / PRO910-ES



PRO906-EL / PRO910-EL


Specifications

MODEL	PRO901-ES/EL	PRO902-ES/EL	PRO903-ES/EL	
PHASE	Single phase with ground			
CAPACITY*	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W	
INPUT				
Nominal Voltage	200/208/220/230/240VAC			
Voltage Range	110-300 VAC (Based on load at 50%) 160-280VAC (Based on load at 100%)			
Frequency Range	40 Hz ~ 70 Hz			
Power Factor	≥ 0.99 @ Nominall Voltage (100% load)			
OUTPUT				
Nominal Voltage	200/208/220/230/240VAC			
Voltage Regulation (Batt. Mode)	± 1 %			
Frequency Range (Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz			
Current Crest Ratio	3:1			
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)	Pure Sine Wave			
Overload capability	100~110% for 10 mins, 110~130% for 1 min, 130~150% for 3 secs			
EFFICIENCY				
AC Mode	88%	88%	90%	
Battery Mode	83%	87%	88%	
ECO Mode	97% @ battery fully charged			
BATTERY				
Standard Model	Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah
	Numbers	2	4	6
	Typical Recharge Time	4 hours recover to 90% capacity		
	Charging Current (max.)	1 A		
	Charging Voltage	27.4VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%
Long-run Model **	Battery Type	Depending on the capacity of external batteries		
	Numbers	3	6	6
	Charging Current (max.)	1A/2A/4A/6A (Adjustable)		
	Charging Voltage	41.0 VDC ± 1%	82.1 VDC ±1%	82.1 VDC ±1%
INDICATORS				
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators			
ALARM				
Battery Mode	Sounding every 4 seconds			
Low Battery	Sounding every second			
Overload	Sounding twice every second			
Fault	Continuously sounding			
PHYSICAL				
Standard Model	Dimension, DxWxH (mm)	282 x 145 x 220	397 x 145 x 220	421 x 190 x 318
	Net Weight (kgs)	9.8	17	27.6
Long-run Model **	Dimension, DxWxH (mm)	282 x 145 x 220	397 x 145 x 220	
	Net Weight (kgs)	4.1	6.8	7.4
ENVIRONMENT				
Humidity	20-90 % RH @ 0- 40°C (Non-condensing)			
Noise Level	Less than 50dB @ 1 Meter			
SURGE PROTECTION AND FILTERING				
Surge Energy Rating (Joules)	625J			
MANAGEMENT				
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			
COMPLIANCE STANDARDS				
Safety	IEC/EN 62040-1			
EMC	IEC/EN 62040-2			
Performance	IEC/EN 62040-3			

*1-3KVA: Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 200/208VAC.

**Long-run model is only available for 200/208/220/230/240VAC systems.

Product specifications are subject to change without further notice.

100/110/115/120/127VAC input and output is available as an option for 1~3KVA



Specifications

MODEL		PRO906-ES/EL	PRO910-ES/EL
PHASE		Single phase with ground	
CAPACITY *		6000VA / 5400W	10000 VA / 9000 W
INPUT			
Nominal Voltage		208/220/230/240VAC	
Voltage Range		110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)	
Frequency Range		46~54 Hz or 56~64 Hz	
Power Factor		≥ 0.99 @ Nominall Voltage (100% load)	
OUTPUT			
Nominal Voltage		208/220/230/240VAC	
Voltage Regulation (Batt. Mode)		± 1 %	
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz	
Frequency Range (Batt. Mode)		50 Hz or 60Hz ± 0.1 Hz	
Current Crest Ratio		3:1	
Harmonic Distortion		≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)	
Transfer Time	AC Mode to Battery Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)		Pure Sine Wave	
Overload capability		100~110% for 30 mins, 110~130% for 5 min, 130~150% for 10 secs	
EFFICIENCY			
AC Mode		92%	93%
Battery Mode		90%	91%
ECO Mode		97% @ battery fully charged	
BATTERY			
Standard Model	Battery Type	12 V / 9 Ah	
	Numbers	16	
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (max.)	1 A / 2 A	
	Charging Voltage	218.4 VDC ±1%	
Long-run Model **	Battery Type	Depending on the capacity of external batteries	
	Numbers	16 ~ 20 (Adjustable)	
	Charging Current (max.)	1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries)	
	Charging Voltage	273 VDC ±1% (Based on 20pcs batteries)	
INDICATORS			
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators	
ALARM			
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every second	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Standard Model	Dimension, DxWxH (mm)	369 x 190 x 688	442 x 190 x 688
	Net Weight (kgs)	61	66
Long-run Model **	Dimension, DxWxH (mm)	369 x 190 x 318	442 x 190 x 318
	Net Weight (kgs)	12	16
ENVIRONMENT			
Humidity		0-95% RH @ 0-40°C (non-condensing)	0-95% RH @ 0-40°C (non-condensing)
Noise Level		Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
SURGE PROTECTION AND FILTERING			
Surge Energy Rating (Joules)		1080J	
MANAGEMENT			
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC	
Optional SNMP		Power management from SNMP manager and web browser	
COMPLIANCE STANDARDS			
Safety		IEC/EN 62040-1	
EMC		IEC/EN 62040-2	
Performance		IEC/EN 62040-3	

6-10KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC.

Product specifications are subject to change without further notice.

20 blocks battery option is available for 6/10KVA Standard models



Professional II+ Series Rack/Tower Type

PRO900-ERS/ERL SERIES | 1~10KVA, p.f 0.9



CCTV & Security
Systems



Local Area
Network (LAN)



Work-Stations



Servers



Prolink **Professional II+ Series (1P/1P) Rack/Tower** is a single-phase UPS system using microprocessor controlled true online double conversion technology and it can be used to provide protection for critical loads especially on IT applications. High input power factor correction in the system improves efficiency and reduces overall losses.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. Both Tower and Rack Types of UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

In addition, Emergency Power Off (EPO) function is also available to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

Key Features

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage (110 V – 300 V)
- Converter mode available
- ECO mode for energy saving (Only available for 1-3KVA model)
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Emergency power off function (EPO)
(Optional for 1~3kVA, Built-in for 6/10kVA)
- Hot-swappable battery design (1~3KVA)

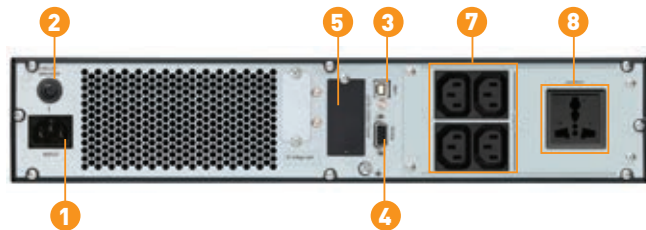
Rear Panel

1-3KVA

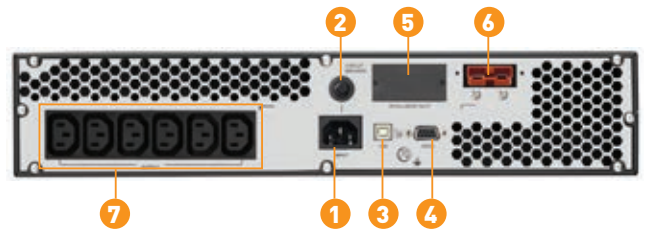
- 1. AC input
- 2. Input circuit breaker
- 3. USB communication port
- 4. RS-232 communication port

- 5. Intelligent slot
- 6. External battery connection (only available for L model)

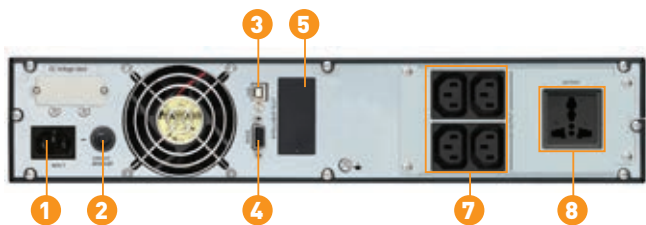
- 7. Output receptacles (IEC C13)
- 8. Output receptacle (Universal outlet)
- 9. Output receptacle (IEC C19)



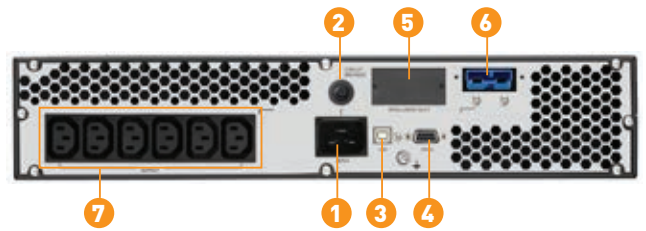
PRO901-ERS



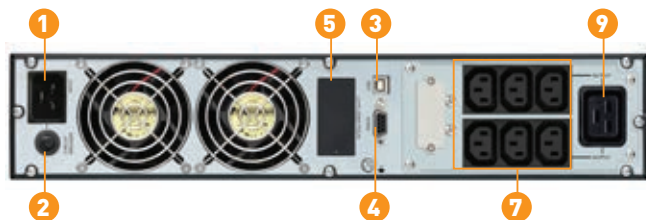
PRO901-ERL



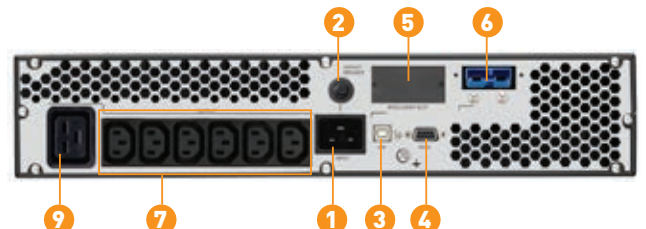
PRO902-ERS



PRO902-ERL



PRO903-ERS

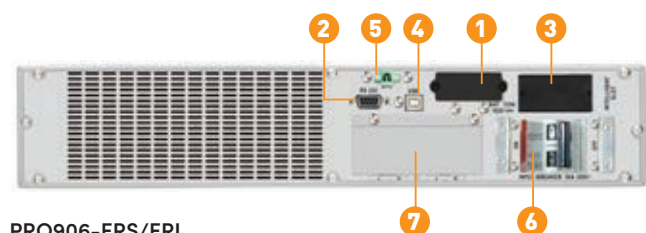


PRO903-ERL

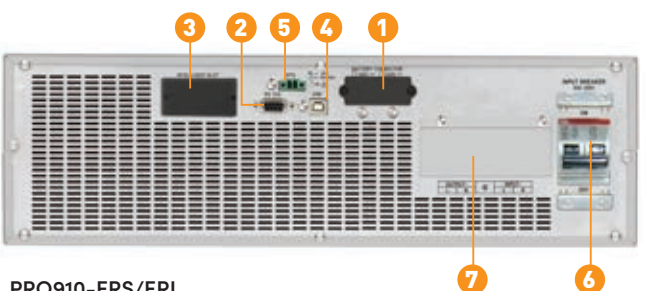
6-10KVA

- 1. External battery connector (Only available for L model)
- 2. RS-232 communication port
- 3. Intelligent slot
- 4. USB communication port

- 5. Emergency power off function connector (EPO connector)
- 6. Input circuit breaker
- 7. Input/Output terminal



PRO906-ERS/ERL



PRO910-ERS/ERL

Specifications


MODEL		PRO901-ERS/ERL	PRO902-ERS/ERL	PRO903-ERS/ERL	PRO906-ERS/ERL	PRO910-ERS/ERL
PHASE		Single phase with ground				
CAPACITY		1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W	6000 VA / 5400 W	10000 VA / 9000 W
INPUT						
Nominal Voltage		200/208/220/230/240VAC			208/220/230/240VAC	
Voltage Range		110-300 VAC at 50% load 160-280 VAC at 100% load			110-300 VAC ± 3% at 50% Load 176-300 VAC ± 3% at 100% Load	
Frequency Range		40Hz ~ 70 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz	
Power Factor		≥ 0.99 @ Nominal Voltage (100% load)				
OUTPUT						
Nominal Voltage		200/208/220/230/240VAC			208/220/230/240VAC	
Voltage Regulation (Batt. Mode)		± 1%			± 1%	
Frequency Range (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz	
Frequency Range (Batt. Mode)		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz			50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1				
Harmonic Distortion		≤ 3 % THD (Linear Load), ≤ 6 % THD (Non-linear Load)			≤ 3 % THD (Linear Load), ≤ 5 % THD (Non-linear Load)	
Transfer Time	AC Mode to Battery Mode	Zero			0 ms	
	Inverter to Bypass	4 ms (Typical)			0 ms	
Waveform (Batt. Mode)		Pure Sine Wave				
Overload capability		100~110% for 10 mins, 110~130% for 1 min, 130~150% for 3 secs			100~110% for 30 mins, 110~130% for 5 min, 130~150% for 10 secs	
EFFICIENCY						
AC Mode		88%	89%	90%	92%	93%
Battery Mode		83%	87%	88%	90%	91%
ECO Mode		97% @ battery fully charged				
BATTERY						
Standard Model	Battery Type	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH	
	Numbers	2	4	6	16	
	Typical Recharge Time	4 hours recover to 90% capacity			9 hours recover to 90% capacity	
	Charging Current	1.0 A			1A/2A (Adjustable)	
	Charging Voltage	27.4VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%	218.4VDC ± 1%	
Long-run Model	Battery Type	Depending on the capacity of external batteries			Depending on applications	
	Numbers	3	6	6	16 - 20 pcs (Adjustable)	
	Charging Current (max.)	1.0A/2.0A/4.0A/6.0 A			1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries)	
	Charging Voltage	41.0VDC ± 1%	82.1 VDC ±1%	82.1 VDC ±1%	218.4 VDC ± 1% (Based on 16pcs batteries)	
INDICATORS						
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				
ALARM						
Battery Mode		Sounding every 4 seconds				
Low Battery		Sounding every second				
Overload		Sounding twice every second				
Fault		Continuously sounding				
PHYSICAL						
Standard Model	Dimension, D x W x H (mm)	310 x 438 x 88 [2U]	410 x 438 x 88 [2U]	630 x 438 x 88 [2U]	UPS Unit: 530x438x88[2U] Battery Pack: 668x438x88[2U]	UPS Unit: 580x438x133[3U] Battery Pack: 668x438x88 [2U]
	Net Weight (kgs)	12	19	29.3	UPS Unit: 15 Battery Pack: 48	UPS Unit: 18 Battery Pack: 51
Long-run Model*	Dimension, D x W x H (mm)	310 x 438 x 88 [2U]	410 x 438 x 88 [2U]		530 x 438 x 88 [2U]	580 x 438 x 133 [3U]
	Net Weight (kgs)	9	12	14.2	15	18
ENVIRONMENT						
Humidity		20-90 % RH @ 0- 40°C (non-condensing)			0-95 % RH @ 0- 40°C (non-condensing)	
Noise Level		Less than 50dB @ 1 Meter			Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
SURGE PROTECTION AND FILTERING						
Surge Energy Rating (Joules)		625J			1080J	
MANAGEMENT						
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP		Power management from SNMP manager and web browser				
COMPLIANCE STANDARDS						
Safety		IEC/EN 62040-1				
EMC		IEC/EN 62040-2				
Performance		IEC/EN 62040-3				

*Long-run model is only available for 200/208/220/230/240VAC systems.

**Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 200/208VAC.

Product specifications are subject to change without further notice.

100/110/115/120/127VAC input and output is available as an option for 1~3KVA



Master II Series (1P/1P)-Tower

PRO800-ES/EL SERIES | 1~3KVA, p.f 0.9



CCTV & Security
Systems



ATM



Electro-Medical
Device



PLC Control
Systems



Emergency Alarm
Devices



Servers



Prolink **Master II Series (1P/1P) Tower Type** is a single-phase UPS system that employs a true online double-conversion technology. UPS system is designed to deliver clean and high quality electrical power to fully protect critical devices such as sensitive networks, small computer centres, servers, medical equipment, telecom applications as well as industrial applications. High input power factor correction in the system improves the efficiency and reduces overall losses.

UPS is equipped with 3-stage smart charging design to optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

The Master II series (1P/1P) Tower p.f.0.9 Type is available in capacities ranging from 1KVA to 3KVA. Programmable power outlet feature is implemented in the system so that during power failure, this enables users to extend battery time to critical devices by shutting down the non-critical devices.

In addition, Emergency Power Off (EPO) function is also available for UPS models and which is used to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

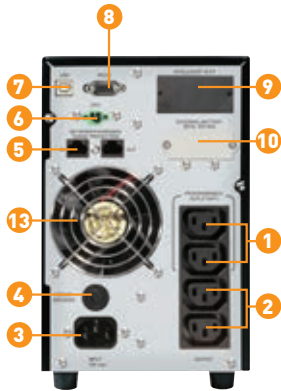
Key Features

- True double-conversion online UPS
- Wide input voltage range (110-300 VAC)
- Input power factor correction 0.99
- Output power factor 0.9
- 50/60 Hz Frequency Converter Mode
- Programmable power management outlets
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- High overload capability and enhanced short circuit protection
- SNMP/USB/RS-232 multiple communications
- 3-stage smart charging design
- Selectable output voltage: 200-240VAC

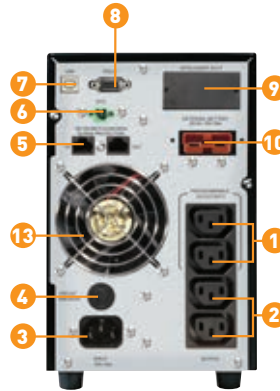
Rear Panel

1-3KVA

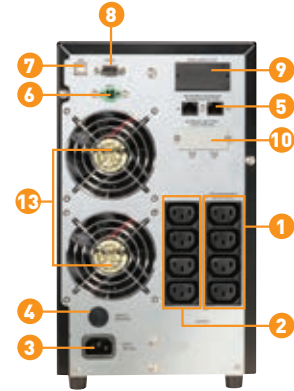
- 1. Programmable outlets: connect to non-critical loads
- 2. Output receptacles: connect to mission-critical loads
- 3. AC input
- 4. Input circuit breaker
- 5. Network/Fax/Modem surge protection
- 6. Emergency power off function connector (EPO)
- 7. USB communication port
- 8. RS-232 communication port
- 9. Intelligent slot
- 10. External battery connection (Only available for L model)
- 11. Output terminal
- 12. Output circuit breaker
- 13. Cooling fan



PRO801-ES
PRO8015-ES



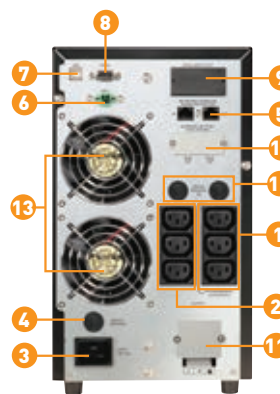
PRO801-EL
PRO8015-EL



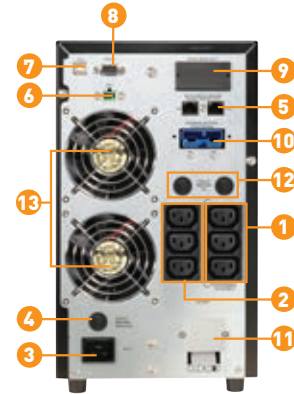
PRO802-ES



PRO802-EL



PRO803-ES



PRO803-EL



Specifications

MODEL	PRO801-ES/EL	PRO8015-ES/EL	PRO802-ES/EL	PRO803-ES/EL	
PHASE	Single phase with ground				
CAPACITY	1000 VA / 900 W	1500 VA / 1350 W	2000 VA / 1800 W	3000 VA / 2700 W	
INPUT					
Nominal Voltage	200/208/220/230/240 VAC				
Voltage Range	110 - 300 VAC ± 5 % at 50% load 160 - 300 VAC ± 5 % at 100% load				
Frequency Range	40 Hz ~ 70 Hz				
Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)				
THDi	≤ 5 % @100~130VAC or 205-245VAC THDU < 1.6% @ input and full linear load condition with battery fully charged				
OUTPUT					
Nominal Voltage	200/208/220/230/240 VAC				
Voltage Regulation (Batt. Mode)	± 1%				
Frequency Range (Synchronized Range)	47~53 Hz or 57~63 Hz				
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz				
Current Crest Ratio	3:1				
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)				
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter to Bypass	4 ms (Typical)			
Waveform (Batt. Mode)	Pure Sine Wave				
Overload capability	100~110% for warning only, 110~130% for 5 min, 130~150% for 20 secs				
EFFICIENCY					
AC Mode	90%		91%		
ECO Mode	97% @ battery fully charged				
Battery Mode	89%	89%	89%	90%	
BATTERY					
Standard Model	Battery Type	12 V / 7 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah
	Numbers	3	3	6	6
	Typical Recharge Time	4 hours recover to 90% capacity			
	Charging Current (max.)	1.5 A			
Long-run Model	Charging Voltage	41.0 VDC ± 1%		82.1 VDC ±1%	
	Battery Type	Depending on the capacity of external batteries			
	Numbers	3	3	6	6
	Charging Current (max.)	1A/2A/4A/6A/8A (Selectable via LCD setting)			
	Charging Voltage	41.0 VDC ± 1%		82.1 VDC ±1%	
INDICATORS					
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				
ALARM					
Battery Mode	Sounding every 5 seconds				
Low Battery	Sounding every 2 seconds				
Overload	Sounding every second				
Fault	Continuously sounding				
PHYSICAL					
Standard Model	Dimension, D x W x H (mm)	397 x 145 x 220		421 x 190 x 318	
	Net Weight (kgs)	12.5	13.8	25.8	27
Long-run Model	Dimension, D x W x H (mm)	397 x 145 x 220		421 x 190 x 318	
	Net Weight (kgs)	5.8	5.8	12	13.8
ENVIRONMENT					
Humidity	20-95 % RH @ 0- 40°C (Non-condensing)				
Noise Level	Less than 50dB @1Meter				
SURGE PROTECTION AND FILTERING					
Surge Energy Rating (Joules)	1300J				
MANAGEMENT					
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
COMPLIANCE STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2, 61000-3-2/3				
Performance	IEC/EN 62040-3				

*Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 200VAC or 208 VAC.

Product specifications are subject to change without further notice.

100/110/115/120/127VAC input and output is available as an option for 1~3KVA



Master II Series (1P/1P)-Tower

PRO800-QS/QL SERIES | 1~10KVA, p.f 1.0



Local Area Network (LAN)



Servers



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices



Prolink **Master II Series (1P/1P) Tower Type** is a new **UPS** system series with output power factor 1.0. The UPS design is using true online double-conversion technology which provides higher charging current and it can be set via LCD display. The system is designed to provide protection for critical loads such as sensitive networks, small computer centres, servers, medical equipment, telecom applications as well as industrial applications. High input power factor correction in the system improves the efficiency and reduces overall losses.

For 6KVA and 10KVA units, DSP control technology is implemented for the system to have improve performance and real time harmonic cancellation. UPS is equipped with 3-stage smart charging design to optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time. External battery chargers and battery extension assembly are made available for longer runtime applications.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

The Master II series (1P/1P) Tower p.f.1.0 Type is available in capacities ranging from 1KVA to 10KVA. For those applications which require longer backup, long run models with adjustable battery number options are available for 6KVA and 10KVA. Parallel Redundant configuration (N+X) is available as an option for 6KVA and 10KVA units.

In addition, Emergency Power Off (EPO) function is also available for UPS models and which is used to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

Key Features

- True double-conversion
- Microprocessor control optimizes reliability*
- Output power factor 1
- Input power factor correction
- Wide input voltage (110V–300V)
- 50/60Hz Frequency Converter Mode
- ECO mode energy saving
- Emergency power off (EPO) function
- Adjustable charging current via LCD panel
- Generator compatible
- DSP technology guarantees high performance^
- Optional N+X parallel redundancy^

*Only available for 1-3KVA models ^Only available for 6-10KVA models

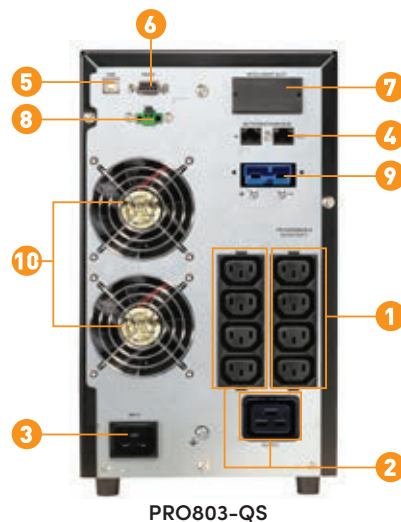
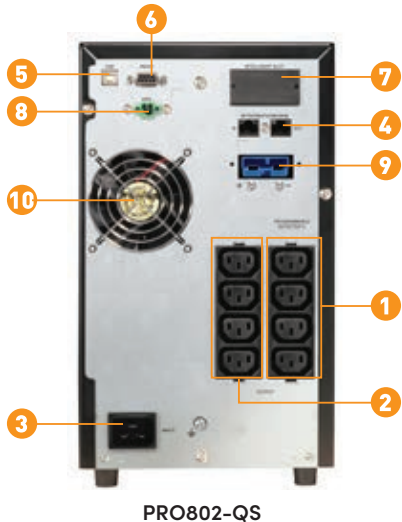
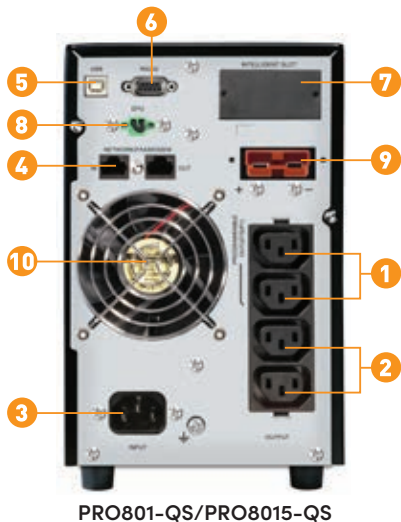
Rear Panel

1-3KVA

1. Programmable outlets: connect to non-critical loads
2. Output receptacles: connect to mission-critical loads
3. AC input
4. Network/Fax/Modem surge protection
5. USB communication port

6. RS-232 communication port
7. Intelligent slot
8. Emergency power off function connector (EPO)

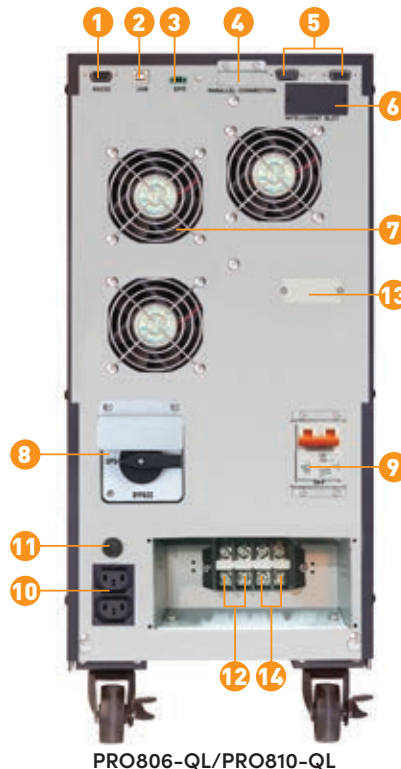
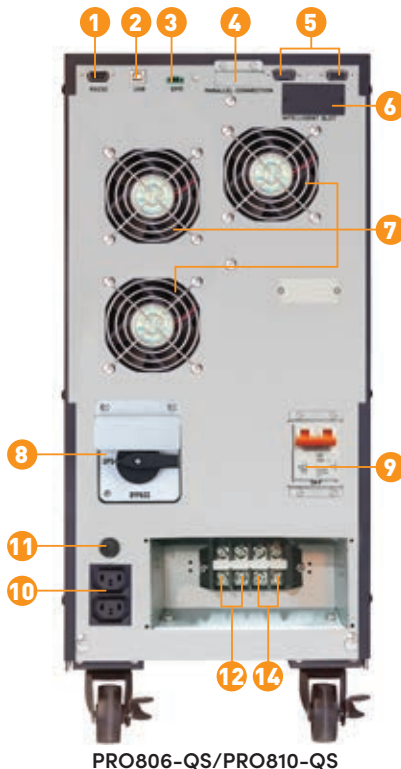
9. External battery connector
(External battery bank connection cable provided)
10. Cooling fan



6-10KVA

1. RS-232 communication port
2. USB communication port
3. Emergency power off function connector (EPO)
4. Share current port
5. Parallel port
6. Intelligent slot
7. Cooling fan

8. Maintenance bypass switch
9. Input circuit breaker
10. Output receptacles: connect to mission-critical loads (Optional)
11. Output circuit breaker for receptacles
12. Output terminal: connect to mission-critical loads
13. External battery connector
(External battery bank connection cable to be purchased separately)
14. Utility input terminal



*Parallel Communication Cables and Shared current power cables are optional.


Specifications

MODEL	PRO801-QS	PRO8015-QS	PRO802-QS	PRO803-QS	
PHASE	Single phase with ground				
CAPACITY*	1000 VA / 1000 W	1500 VA / 1500W	2000 VA / 2000 W	3000 VA / 3000 W	
INPUT					
Nominal Voltage	200/208/220/230/240 VAC				
Voltage Range	110 - 300 VAC \pm 3 % at 50% load 160 - 300 VAC \pm 3 % at 100% load				
Frequency Range	40Hz ~ 70Hz				
Power Factor	\geq 0.99 @ nominal voltage (100% load)				
THDi%	\leq 5%				
OUTPUT					
Nominal Voltage	200*/208*/220/230/240 VAC				
Voltage Regulation (Batt. Mode)	\pm 1%				
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57~63Hz				
Frequency Range (Batt. Mode)	50 Hz \pm 0.1 Hz or 60Hz \pm 0.1 Hz				
Current Crest Ratio	3:1				
Harmonic Distortion	\leq 2% THD (Linear Load), \leq 4 % THD (Non-linear Load)				
Transfer Time	AC to DC	Zero			
	Inverter to Bypass	4 ms (Typical)			
	ECO to Battery Mode	8 ms (Typical), 10 ms (max)			
Waveform (Batt. Mode)	Pure Sine Wave				
Overload capability	100~110% for warning only, 110~130% for 5 min, 130~150% for 20 secs				
EFFICIENCY					
AC Mode	\geq 89%			\geq 91%	
ECO Mode		\geq 97% @ battery fully charged			
Battery Mode	\geq 88%			\geq 90%	
BATTERY					
Battery Type	12 V / 7 AH	12 V / 9 AH	12 V / 9 AH	12 V / 7 AH	12 V / 9AH
Numbers	3		4	6	
Typical Recharge Time	3 hours recover to 95% capacity for internal battery@ 2A charging current				
Charging Current	200/208/220/230/240 VAC models: default 2A, max. 12A adjustable		Default: 2A, Max: 8A adjustable		
Charging Voltage	41.1VDC \pm 1%		54.8VDC \pm 1%	82.2VDC \pm 1%	82.2VDC \pm 1%
INDICATORS					
LCD Panel	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator				
ALARM					
Battery Mode	Sounding every 5 seconds				
Low Battery	Sounding every 2 seconds				
Overload	Sounding every second				
Fault	Continuously sounding				
PHYSICAL					
Dimension, D x W x H (mm)	397 x 145 x 220		421 x 190 x 318		
Net Weight (without battery) (kgs)	6.6	7	9.9	12.3	
Net Weight (w/ built-in battery) (kgs)	13	14.6	23.2	28	
ENVIRONMENT					
Humidity	20-95 % RH @ 0- 45°C (non-condensing)				
Noise Level	Less than 50dBA @ 1 Meter with Fan speed control				
SURGE PROTECTION AND FILTERING					
Surge Energy Rating (Joules)	625J				
MANAGEMENT					
Smart RS-232 or USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
COMPLIANCE STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				

*Derate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC.
Product specifications are subject to change without further notice.
100/110/115/120/127VAC input and output is available as an option for 1~3KVA



Specifications

MODEL		PRO806-QS/QL	PRO810-QS/QL
PHASE		1 phase in / 1 phase out	
CAPACITY		6000 VA / 6000 W	10000 VA / 10000 W
PARALLEL CAPABILITY		3	
INPUT			
Nominal Voltage		208/220/230/240 VAC	
Voltage Range		110-300VAC ± 3% at 50% load ; 176-300VAC ± 3% at 100% load	
Frequency Range		46-54 Hz or 56-64 Hz	
Phase		Single phase with ground	
Power Factor		≥ 0.99 @ full load	
THDi		<4% @100% Load ; <6% @50% Load	
OUTPUT			
Nominal Voltage		208/220/230/240 VAC	
Voltage Regulation (Batt. Mode)		± 1%	
Frequency Range (Synchronized Range)		46-54 Hz or 56-64 Hz	
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1 (max.)	
Harmonic Distortion		≤1 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)		Pure Sine Wave	
Overload capability		100-110% for 10 mins, 110-130% for 1 min, 130-150% for 3 secs	
EFFICIENCY			
AC Mode		94%	
ECO Mode		≥98% @ battery fully charged	
Battery Mode		91%	
BATTERY			
Standard Model	Battery Type	12 V / 7 Ah	12 V / 9 Ah
	Numbers	20	
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (max.)	1.0 A	
	Charging Voltage	273 VDC ± 1%	
Long-run Model	Battery Type	Depending on applications	
	Numbers	16-20**	
	Charging Current (max.)	4.0 A (Parallelable up to 3 charger boards to reach 12A maximum)	
	Charging Voltage	218.4 VDC ± 1% (Based on 16 pcs batteries)	
INDICATORS			
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions	
ALARM			
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every 2 seconds	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Standard Model	Dimension,DxWxH (mm)	592 x 250 x 576	592 x 250 x 576
	Net Weight (kgs)	81	83
Long-run Model	Dimension,DxWxH (mm)	592 x 250 x 576	592 x 250 x 576
	Net Weight (kgs)	25	27
ENVIRONMENT			
Operating Humidity		20-95 % RH @ 0- 40°C (Non-condensing)	
Noise Level		Less than 55dB @1Meter	Less than 58dB @1Meter
SURGE PROTECTION AND FILTERING			
Surge Energy Rating (Joules)		211J	
MANAGEMENT			
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC	
Optional SNMP		Power management from SNMP manager and web browser	
COMPLIANCE STANDARDS			
Safety		IEC/EN 62040-1	
EMC		IEC/EN 62040-2	
Performance		IEC/EN 62040-3	

* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC.

**When using batteries from 16-19, the unit will de-rate according to below formula: P=Prating x N/20.

***If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m. Product specifications are subject to change without further notice.



Master II Series (1P/1P)-Rack/Tower

PRO800-ERS/ERL SERIES | 1~3KVA, p.f 0.9



CCTV & Security
Systems



Local Area
Network (LAN)



Work-Stations



Servers



19" Rack
Mount

Prolink **Master II Series (1P/1P) Rack / Tower Type** is a true online double conversion single phase UPS system which is designed to deliver clean and high quality electrical power to fully protect critical devices in wide range of applications. High input power factor correction in the system improves the efficiency and reduces overall losses.

UPS is equipped with 3-stage smart charging design to optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time.

The front panel LCD display comes with rotation feature which to be used for both rack and tower types. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

Prolink Master II series (1P/1P) Rack /Tower p.f 0.9 Type is available in capacities ranging from 1KVA to 3KVA.

In addition, Emergency Power Off (EPO) function is also available for the UPS models and which is used to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

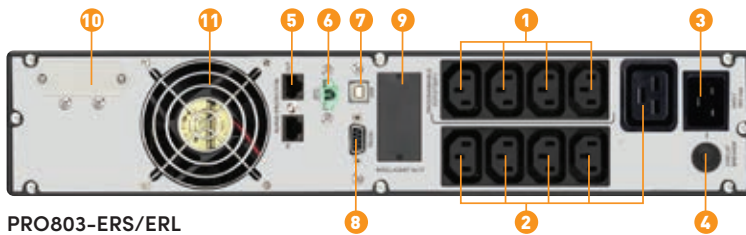
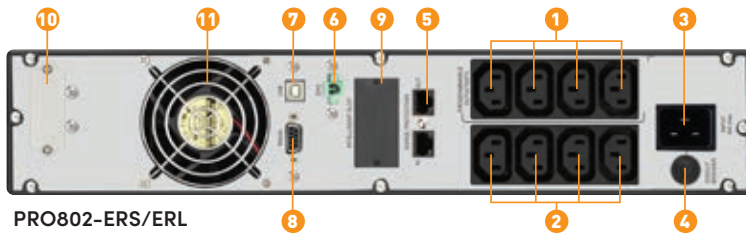
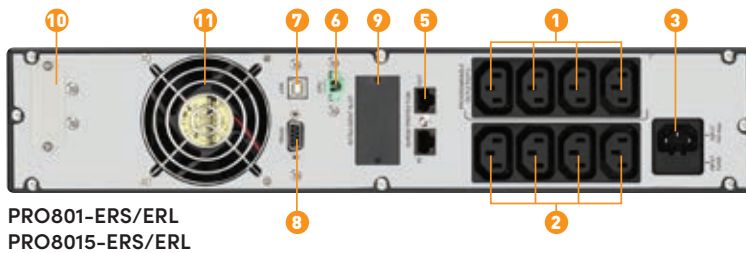
Key Features

- True double-conversion online UPS
- Output power factor 0.9
- User-friendly and easy-shift LCD display
- Rack/Tower design
- Programmable power management outlets
- 50/60 Hz frequency converter mode
- ECO and advanced ECO mode for energy saving
- Emergency Power Off Function (EPO)
- Hot-swappable battery design

Rear Panel

1-3KVA

- 1. Programmable outlets: connect to non-critical loads
- 2. Output receptacles: connect to mission-critical loads
- 3. AC input
- 4. Input circuit breaker
- 5. Network/Fax/Modem surge protection
- 6. Emergency power off function connector (EPO)
- 7. USB communication port
- 8. RS-232 communication port
- 9. Intelligent slot
- 10. External battery connection (only available for L model)
- 11. Cooling Fan



Specifications


MODEL		PRO801-ERS/ERL	PRO8015-ERS/ERL	PRO802-ERS/ERL	PRO803-ERS/ERL	
PHASE		Single phase with ground				
CAPACITY	VA	1000 VA	1500 VA	2000 VA	3000 VA	
	W	900 W	1350 W	1800 W	2700 W	
INPUT						
Nominal Voltage		200/208/220/230/240 VAC				
Voltage Range		110-300 VAC ± 5%				
Frequency Range		40Hz ~ 70Hz				
Power Factor		≧ 0.99 @ Nominal Voltage (100% Load)				
OUTPUT						
Nominal Voltage		200/208/220/230/240 VAC				
Voltage Regulation (Batt. Mode)		± 1%				
Frequency Range (Synchronized Range)		47 ~ 53 Hz or 57 ~ 63 Hz				
Frequency Range (Batt. Mode)		50 Hz ± 0.5% or 60Hz ± 0.5%				
Current Crest Ratio		5:1 (max.)				
Harmonic Distortion		≦ 2 % THD (Linear Load) ; ≦ 4 % THD (Non-linear load)				
Transfer Time	AC Mode to Battery Mode	Zero				
	Inverter to Bypass	4 ms (Typical)				
Waveform (Batt. Mode)		Pure Sine Wave				
Overload capability		100~110% for warning only, 110~130% for 5 min, 130~150% for 20 secs				
EFFICIENCY						
AC Mode		90%	90%	91%	91%	
ECO Mode		97% @ battery fully charged				
Battery Mode		88%	89%	88%	90%	
BATTERY						
Standard Model	Battery Type	12 V / 9Ah	12 V / 9Ah	12 V / 9Ah	12 V / 9Ah	
	Numbers	2	3	4	6	
	Typical Recharge Time	4 hours recover to 90% capacity				
	Charging Current (max.)	1.5 A				
	Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%	54.8 VDC ± 1%	82.1 VDC ± 1%
Long-run Model	Battery Type	Depending on the capacity of external batteries				
	Numbers	2	3	3	4	6
	Charging Current (max.)	1 A / 2 A / 4 A / 8 A				
	Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%	54.8 VDC ± 1%	82.1 VDC ± 1%
INDICATORS						
LCD Display		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator				
ALARM						
Battery Mode		Sounding every 4 seconds				
Low Battery		Sounding every second				
Overload		Sounding twice every second				
Fault		Continuously sounding				
PHYSICAL						
Standard Model	Dimension, D x W x H (mm)	410 x 438 x 88	410 x 438 x 88	510 x 438 x 88	630 x 438 x 88	
	Net Weight (kgs)	11.6	14.5	19.5	27.4	
Long-run Model	Dimension, D x W x H (mm)	410 x 438 x 88	410 x 438 x 88	410 x 438 x 88	510 x 438 x 88	
	Net Weight (kgs)	6.4	6.5	6.5	10.5	
ENVIRONMENT						
Humidity		20-90 % RH @ 0-40°C (Non-condensing)				
Noise Level		Less than 50dBA @ 1 Meter				
MANAGEMENT						
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP		Power management from SNMP manager and web browser				
COMPLIANCE STANDARDS						
Safety		IEC/EN 62040-1				
EMC		IEC/EN 62040-2				
Performance		IEC/EN 62040-3				

**Derate to 80% when the output voltage is adjusted to 200VAC/208VAC.
 Product specifications are subject to change without further notice.
 100/110/115/120/127VAC input and output is available as an option for 1~3KVA



Master II Series (1P/1P)–Rack/Tower

PRO800-QRS/QRL SERIES | 1~10KVA, p.f 1.0



CCTV & Security Systems



Local Area Network (LAN)



Work-Stations



Servers



Emergency Alarm Devices



19" Rack Mount



Prolink **Master II Series (1P/1P) Rack / Tower Type** is a new UPS series with output power factor 1.0. The system design is based on a true online double-conversion technology to optimize system reliability and to deliver clean and high quality electrical power to wide range of critical applications. High input power factor correction in the system improves the efficiency and reduces overall losses.

DSP control technology is implemented for the UPS ratings 6KVA and above to improve performance and real time harmonic cancellation. UPS is also equipped with 3-stage smart charging design to optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time. Hot swappable battery design is implemented for the UPS ratings from 1KVA to 3KVA.

The front panel LCD display comes with rotation feature which to be used for both rack and tower types. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

Prolink Master II series (1P/1P) Rack / Tower- p.f 1.0 Type is available in capacities ranging from 1KVA to 10KVA. Higher charging current is available for 1KVA~3KVA models and it can be set via LCD display.

In addition, Emergency Power Off (EPO) function is also available for the UPS models and which is used to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

Key Features

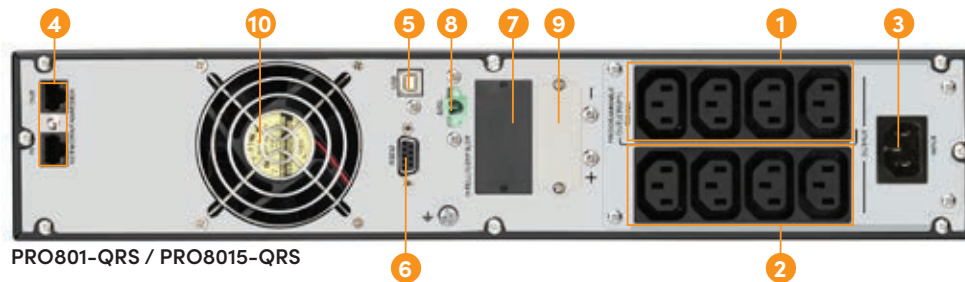
- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- Wide input voltage range (110–300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets[^]
- Hot swappable battery design[^]
- ECO mode energy saving
- Emergency power off function (EPO)
- Generator compatible
- Adjustable battery numbers
- Optional N+X parallel redundancy
- Adjustable charging current via LCD panel
- Smart battery charger design to optimize battery performance
- Optional Isolation Transformer Pack for 6kVA and 10kVA
- Touch screen LCD (2.8") option for 6/10kVA

[^]Only available for 1-3KVA

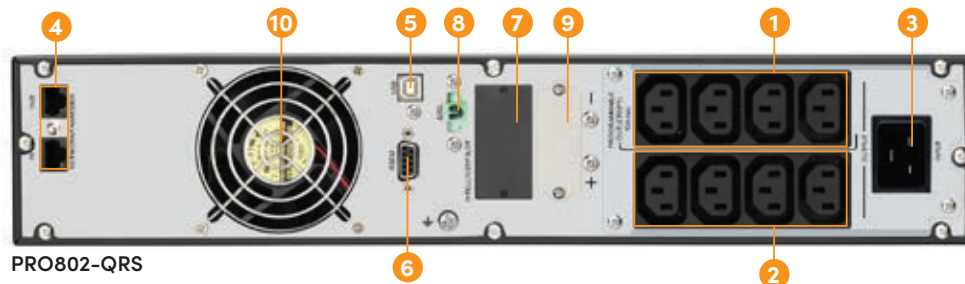
Rear Panel

1-3KVA

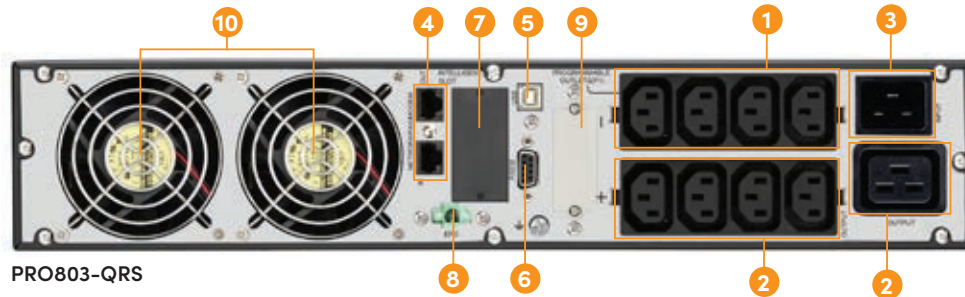
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|---|---|---|
| 1. Programmable outlets: connect to non-critical loads. | 4. RS-232 communication port | 9. External battery connector (External battery bank connection cable to be purchased separately) |
| 2. Output receptacles: connect to mission-critical loads. | 5. Intelligent slot | 10. Cooling fan |
| 3. AC input | 6. Emergency power off function connector (EPO) | |
| 4. Network/Fax/Modem surge protection | | |
| 5. USB communication port | | |



PRO801-QRS / PRO8015-QRS



PRO802-QRS



PRO803-QRS

6-10KVA

- | | | |
|---|---|---|
| 1. Share current port (only available for parallel configuration) | 6. USB communication port | 11. Input terminals |
| 2. Parallel port (only available for parallel configuration) | 7. Emergency power off function connector (EPO connector) | 12. Cooling Fan |
| 3. External battery connector (External battery bank connection cable to be purchased separately) | 8. Input circuit breaker | 13. External maintenance bypass switch port |
| 4. Intelligent slot | 9. Output terminals | |
| 5. RS-232 communication port | 10. Ground | |



PRO806-QRS/QRL
PRO810-QRS/QRL

Specifications


MODEL	PRO801-QRS	PRO8015-QRS	PRO802-QRS	PRO803-QRS
PHASE	Single phase with ground			
CAPACITY*	1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W
INPUT				
Nominal Voltage	200/208/220/230/240 VAC			
Voltage Range	110-300 VAC ± 5% @ 50% load 160-300 VAC ± 5% @ 100% load			
Frequency Range	40 Hz ~ 70 Hz			
Power Factor	≥ 0.99 @ nominal voltage (100% load)			
Harmonic Distortion(THDi)	≤ 5% @ nominal input voltage			
OUTPUT				
Nominal Voltage	200*/208*/220/230/240 VAC			
Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz			
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)	Pure Sine Wave			
Overload capability	100~110% for warning only, 110~130% for 5 min, 130~150% for 20 secs			
EFFICIENCY				
AC Mode	≥ 89%		≥ 91%	
ECO Mode	97% @ battery fully charged			
Battery Mode	≥ 88%		≥ 90%	
BATTERY				
Battery Type	12 V / 7 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah
Numbers	3		6	
Typical Recharge Time	3 hours recover to 95% capacity for internal battery@ 2A charging current			
Charging Current	200/208/220/230/240 VAC models: default 2A, max. 12A adjustable		Default: 2A, Max: 8A adjustable	
Charging Voltage	41.1 VDC ± 1%	41.1 VDC ± 1%	82.1 VDC ±1%	82.1 VDC ±1%
INDICATORS				
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
ALARM				
Battery Mode	Sounding every 5 seconds			
Low Battery	Sounding every 2 seconds			
Overload	Sounding every second			
Fault	Continuously sounding			
PHYSICAL				
Dimension, D x W x H(mm)	410 x 438 x 88	410 x 438 x 88	630 x 438 x 88	630 x 438 x 88
Net Weight (without battery) (kgs)	7.8	8.1	10.6	12.4
Net Weight (w/built-int battery) (kgs)	14.1	15.5	23.3	27.5
ENVIRONMENT				
Humidity	20-90 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 50dB @ 1 Meter			
MANAGEMENT				
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			
COMPLIANCE STANDARDS				
Safety	IEC/EN 62040-1			
EMC	IEC/EN 62040-2			
Performance	IEC/EN 62040-3			

*Derate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC.
Product specifications are subject to change without further notice.
100/110/115/120/127VAC input and output is available as an option for 1~3KVA


Specifications

MODEL		PRO806-QRS/QRL	PRO810-QRS/QRL
PHASE		1 phase in / 1 phase out	
CAPACITY*		6000 VA / 6000 W	10000 VA / 10000 W
PARALLEL CAPABILITY		3	
INPUT			
Nominal Voltage		208/220/230/240 VAC	
Voltage Range		110~300VAC ± 3% at 50% load 176~300VAC ± 3% at 100% load	
Frequency Range		46~54 Hz Ⓢ 50Hz / 56~64 Hz Ⓢ 60Hz	
Power Factor		≥ 0.99 @ full load	
THDi		< 4% @100% Load, < 6% @50% Load	
OUTPUT			
Nominal Voltage		208*/220/230/240 VAC	208*/220/230/240 VAC
Voltage Regulation		± 1%	
Frequency Range (Synchronized Range)		46~54 Hz Ⓢ 50Hz / 56~64 Hz Ⓢ 60Hz	
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1 (max.)	
Harmonic Distortion		≤ 1% THD (Linear Load), ≤ 4% THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)		Pure Sine Wave	
Overload capability		100~110% for 10 mins, 110~130% for 1 min, 130~150% for 3 secs	
EFFICIENCY			
AC Mode		94%	
ECO Mode		≥ 98% @ battery fully charged	
Battery Mode		91%	
BATTERY			
Standard Model	Battery Type	12 V / 7 AH	12 V / 9 AH
	Numbers	20	
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (max.)	1.0 A	
Long-run Model	Charging Voltage	273 VDC ± 1%	
	Battery Type	Depending on applications	
	Numbers	16-20**	
	Charging Current (max.)	4.0 A	
Charging Voltage		(13.65VDC x battery number) ± 1%	
INDICATORS			
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions	
ALARM			
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every second	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Standard Model	Dimension, D x W x H (mm)	UPS Unit: 610x438x88 [2U] Battery Pack: 600x438x133 [3U]	UPS Unit: 610x438x88 [2U] Battery Pack: 600x438x133 [3U]
	Net Weight (kgs)	UPS Unit: 17 Battery Pack: 57	UPS Unit: 20 Battery Pack: 63
Long-run Model	Dimension, D x W x H (mm)	610 x 438 x 88 [2U]	
	Net Weight (kgs)	17	
ENVIRONMENT			
Operating Humidity		20-90 % RH @ 0- 40°C (non-condensing)	
Noise Level		Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
MANAGEMENT			
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC	
Optional SNMP		Power management from SNMP manager and web browser	
COMPLIANCE STANDARDS			
Safety		IEC/EN 62040-1	
EMC		IEC/EN 62040-2	
Performance		IEC/EN 62040-3	

* Derate capacity to 60% of capacity in CVCF mode. and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.
 **When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9.
 If the UPS is installed or used in a place where the altitude is above 1000m, the output power must be derated one percent per 100m.
 Product specifications are subject to change without further notice.

Master II Series (1P/1P) - Rack / Tower Lithium-ion Battery

PRO800-HRL | 1~3KVA, p.f 0.9



CCTV & Security
Systems



Local Area
Network (LAN)



Work-Stations



Servers



19" Rack
Mount



Prolink **Master II Series (1P/1P) Rack/Tower Type** is a true online double conversion single phase UPS system which is designed to be used with Lithium-ion battery packs.. UPS is designed to deliver clean and high-quality electrical power to fully protect critical devices such as network servers, research lab equipment, medical lab equipment and etc. With external Lithium-ion battery packs, UPS can provide longer backup for the connecting critical loads.

Key Features

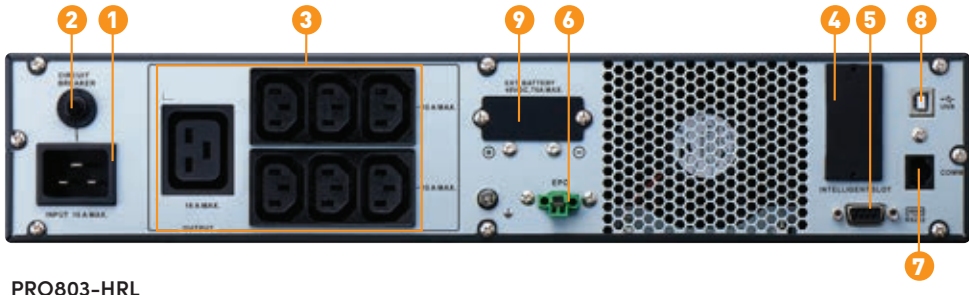
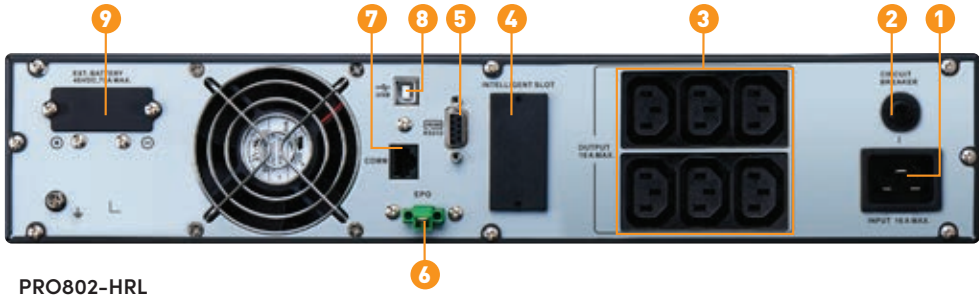
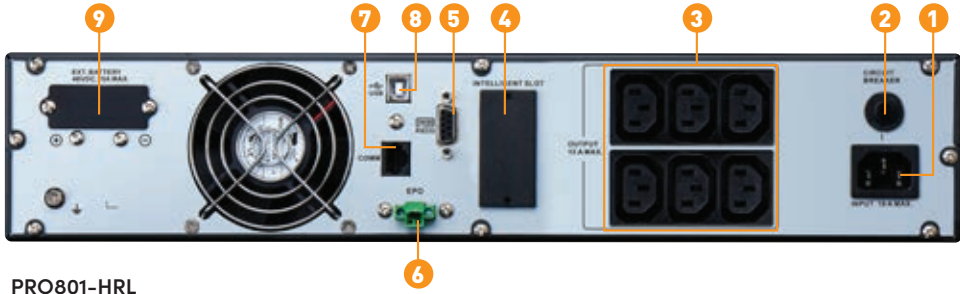
- True double-conversion Online UPS
- Input power factor correction (≥ 0.99 @ nominal voltage (100% load))
- Output power factor 0.9
- Wide input voltage (110V – 300V)
- Comprehensive display allows easy monitoring and access of UPS status
- Adjustable charging current via LCD panel
- Generator compatible
- External Lithium-ion battery pack
- Higher Battery Efficiency in Charge and Discharge
- Built-in BMS system
- UN38.3 for Battery Transportation



Rear Panel

1-3KVA

- 1. AC input
- 2. Input circuit breaker
- 3. Output receptacles
- 4. Intelligent slot
- 5. RS-232 communication port
- 6. Emergency power off function connector (EPO)
- 7. BMS communication port(for external battery pack)
- 8. USB communication port
- 9. External battery connection



Specifications

MODEL	PRO801-HRL	PRO802-HRL	PRO803-HRL
PHASE	Single phase with ground		
CAPACITY	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W
INPUT			
Nominal Voltage	230 VAC		
Voltage Range	160 VAC - 300 VAC @100% load 110 VAC @ 60% load (Derating)		
Frequency Range	40 Hz ~ 70 Hz		
Power Factor	≥ 0.99 @ nominal voltage (100% load)		
Input Connection	IEC 320 C14	IEC 320 C20	IEC 320 C20
OUTPUT			
Output Voltage	220/230/240 VAC (Selectable)		
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized Range)	57~63Hz or 47~53Hz		
Frequency Range (Batt. Mode)	50Hz /60Hz ± 0.1Hz		
Charging Current	5A	10A	10A(if O/P load>95%,CHG current derate to 6A)
Output Connection	(6) IEC 320 C13*	(6) IEC 320 C13*	(6) IEC 320 C13 + (1) IEC C19
Current Crest Ratio	3:1		
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	Zero	
	Inverter to Bypass	4 ms (Typical)	
Waveform (Batt. Mode)	Pure Sinewave		
Overload	Line Mode	<35°C 105-125% 2min ; 125-140% 30sec ;	
	AC Mode	<35°C 105-120% 1min ; >120% immediately	
EFFICIENCY			
AC Mode	91%		
Battery Mode	86%		
ECO Mode	97%		
PHYSICAL			
Dimension, D X W X H (mm)	450 x 438 x 86	500 x 438 x 86	500 x 438 x 86
Net Weight (kgs)	8	8.8	9.7
ENVIRONMENT			
Operation Humidity	0-96 % RH @ 0- 40°C (non-condensing)		
Noise Level	Less than 50dB @ 1 Meter		
MANAGEMENT			
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

External Battery Pack Selection Guide

MODEL	LIO 4805	LIO 4810
Cell Type	LiFePO ₄	
Battery Capacity	50 Ah	100 Ah
Continuous Discharge Current	75 A	150 A
Max Charging Current Per Pack	50A (1C)	100A (1C)
Charging Voltage	52.5V	
Dimension, D X W X H (mm)	630 x 438 x 86	630 x 438 x 133
Net Weight (kgs)	28.2	48.5
Humidity	0-95%(non-condensing)	

* (8) IEC 320 C13 outlet option is available

**Product specifications are subject to change without further notice.

LIO Series

- **Modular design**
- **Life cycle : 8000 cycles at 25°C, 60% DOD**
- **1.5C continuous discharging current**
- **High surge discharging current up to 2C**
- **Wide operating voltage range from 34.5 to 52.5Vdc**
- **Flexible front and Rear installation**
- **Communication protocols: RS485**
- **Easy capacity extension by paralleled**
- **Aluminum case LiFeO4 for cells, more safety and stable**



LIO-4805 (Front view)



LIO-4805 (Back view)



LIO-4810 (Front view)



LIO-4810 (Back view)

Front & back access are both available.

Specifications

MODEL	LIO 4805		LIO 4810	
CAPACITY	2400Wh		4800Wh	
PARAMETERS				
Nominal Voltage	48VDC			
Full Charge Voltage (FC)	52.5VDC			
Full Discharge Voltage (FD)	34.5VDC			
Typical Capacity	50Ah		100Ah	
Max Continuous Discharging Current	75A		150A	
Max Peak Discharging Current	100A		150A	
Battery Connector Max current	75A		75A+75A	
Protection	BMS, Breaker			
Charge Voltage	52.5 ± 0.1V			
Maximum Charge Current	50A (0.5C)		100 A (0.5C)	
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C			
Inner Resistance	<20m ohm			
PHYSICAL				
Dimension, D x W x H (mm)	630 x 438 x 86		630 x 438 x 133	
Net Weight (kgs)	28.2		48.5	
INDICATORS				
LED	Battery Status, Battery level, Battery fault, Alarm			
ENVIRONMENT				
Operating Environment	Charge	0°C~50 °C		
	Discharge	0°C~50 °C		
Storage Temperature (At 50% SOC and specified temp, recoverable capacity in % vs time / 50%)	< 18 months: -20°C~25 °C			
	< 3 months: 25°C~45 °C			
	< 1 months: 45°C~60 °C			
	20°C ± 5 °C is the recommended storage temperature			
MANAGEMENT				
Communication	RS485 port (RJ45), extension port (RJ11)			
Certifications	UN38.3, IEC 62619			
Design Life	>10 years @ 25 °C			
Lifecycle	> 4500 @ 25 °C			

**Product specifications are subject to change without further notice.



Master II Series (3P/3P)-Tower

PRO83300-QS/QL SERIES | 10~80KVA, p.f 1.0



Local Area Network (LAN)



Data Centre



Servers



60KVA/80KVA

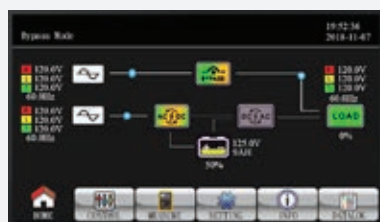
30KVA/40KVA

10KVA/20KVA

Prolink **Master II Series (3P/3P) Tower** Type is a three-phase output UPS system that employs a true online double-conversion technology. A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance and reliability. High input power factor correction in the system improves the efficiency and reduce overall losses. Frequency converter mode 50Hz/60Hz is also available for sensitive equipment. Some distinct features of the Prolink Master II series 3P/3P UPS systems are as listed below.

Key Features

• UPS Front Panel LCD Display



Built-in 5" Touch screen LCD



Optional Graphic LCD

• Output power factor 1.0

For critical applications, this 3-phase online UPS with output power factor 1.0 ensures higher efficiency and advanced performance.

• Dual Inputs

Master II series 3P/3P UPS systems are also available for optional dual inputs to support mains and bypass inputs to have flexibility for system configuration.

• ECO mode operation for energy saving

ECO mode improves the efficiency up to 99% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

• Emergency Power Off (EPO) function

Emergency Power Off (EPO) function is also available for the UPS models and which is used to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

• Powerful charger design

Master II 3P/3P series come with 12A internal charger for 10~30kVA, 16A for 40kVA and 24A for 80kVA. It's to support very long runtime applications when connecting to big capacity of external battery cabinet. Users can adjust charging current via LCD setting based on applications.

• Generator compatible

This UPS can accept generator as power source and still convert perfect power to the connected loads.

• Optional parallel operation with common battery bank (Up to 6 units)

The system can be operated in parallel, increasing the capacity and performance. Besides, this parallel UPS system can share common battery packs which might greatly reduce the expense and reach the same performance.

• High overload capability

Supports 110% overload capacity for 60 min and 150% overload capacity for up to 1 min.

• Adjustable battery number design

The number of connected batteries can be adjusted flexibly (16~20 blocks) based on different power demands. This feature can allow UPS to keep running even when some battery packs are damaged.

• Touch screen LCD display

5" Touch screen LCD display is provided for all Master II 3P/3P UPS models. With touch screen LCD, maximum 500 event/ data logs can be stored inside.

• Flexible input/output configuration (10~20kVA)

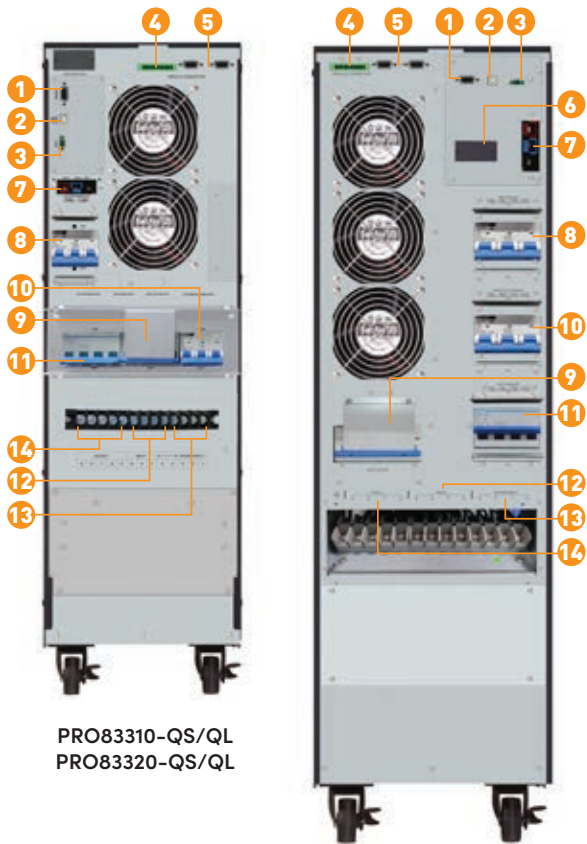
UPS can be easily configured as 3-Phase input/3-Phase output (or) 3-Phase input/1-Phase output (or) 1-Phase input/1-Phase output.

Rear Panel

10-80KVA

- 1. RS-232 communication port
- 2. USB communication port
- 3. Emergency power off function connector (EPO connector)
- 4. Share current port*
- 5. Parallel port**
- 6. Intelligent slot
- 7. External battery connector/terminal*** (for both standard and long run models)
- 8. Line input circuit breaker/switch
- 9. Maintenance bypass switch
- 10. Bypass input circuit breaker/switch
- 11. Output circuit breaker/switch
- 12. Line input terminal
- 13. Bypass input terminal
- 14. Output terminal

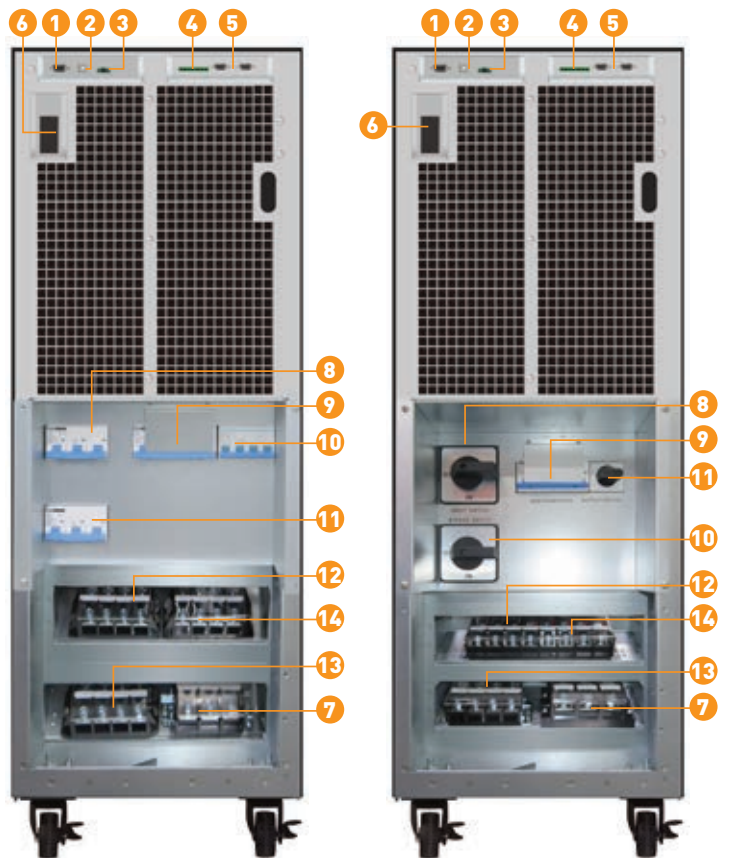
Rear Panel (10~40KVA)



PRO83310-QS/QL
PRO83320-QS/QL

PRO83330-QS/QL
PRO83340-QS/QL

Front Panel with Door Open (60~80KVA)



PRO83360-QL

PRO83380-QL

Note :
 * Share current cable to be purchased separately
 ** Parallel communication cable to be purchased separately.
 *** External battery bank connection cable to be purchased separately

Specifications

MODEL		PRO83310-QS/QL	PRO83320-QS/QL
PHASE		3-Phase in/3-Phase out (or) 3-Phase in/1-Phase out (or) 1-Phase in/1-Phase out	
CAPACITY		10KVA/10KW	20KVA/20KW
PARALLEL CAPABILITY		4	
INPUT			
Nominal Voltage		3 x 380/400/415 VAC (3Ph+N)	
Voltage Range		190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load	
Frequency Range		46-54 Hz or 56-64Hz	
Power Factor		≥ 0.99 @ 100% load	
Harmonic Distortion (THDi)		<3%	
OUTPUT			
Nominal Voltage		3 x 360*/380/400/415 VAC (3Ph+N)	
Voltage Regulation (Batt. Mode)		± 1%	
Frequency Range (Synchronized Range)		46-54Hz or 56-64Hz	
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1 (max.)	
Harmonic Distortion		≤ 1 % THD (Linear Load) ≤ 3 % THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	zero	
	Inverter to Bypass	zero	
Waveform (Batt. Mode)		Pure Sine Wave	
Overload		100-110% for 60 min, 110-125% for 10 min, 125%-150% 1min, >150% immediately	
EFFICIENCY			
AC Mode		95.5%	
ECO Mode		98.5% @ battery fully charged	
Battery Mode		94.5%	
BATTERY			
Standard Model	Battery Type	12V/9AH	12V/9AH
	Numbers	(10+10)pcs x 1 strings	(16+16)pcs x 1 strings
	Typical Recharge Time	4 hours recover to 90% capacity	
	Charging Current (max.)	1A/2A/3A/4A/5A/6A/7A/8A/9A/10A/11A/12A(Adjustable) 12A maximum	
	Charging Voltage	+/-13.65V*N (N = 10)	+/-13.65V*N (N = 16~20)
Long-run Model	Battery Type	Depending on the application	
	Numbers	(10+10) pcs	(16+16)-(20+20)pcs (Adjustable)
	Charging Current (max.)	1-12A (Adjustable)	
	Charging Voltage	+/-13.65V*N (N = 10)	+/-13.65V*N (N = 16~20)
INDICATORS			
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions	
PHYSICAL			
Standard Model	Dimension, D x W x H (mm)	630 x 250 x 826	
	Net Weight (kgs)	103	139
Long-run Model	Dimension, D x W x H (mm)	630 x 250 x 826	
	Net Weight (kgs)	36	40
IP Rating		IP20	
ENVIRONMENT			
Operation Temperature		0-40°C	
Operation Humidity		<95% and non-condensing	
Noise Level		Less than 60dB @ 1 Meter	Less than 60dB @ 1 Meter
SURGE PROTECTION AND FILTERING			
Surge Energy Rating		490J	
MANAGEMENT			
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC	
Optional SNMP		Power management from SNMP manager and web browser	
COMPLIANCE STANDARDS			
Safety		IEC/EN 62040-1	
EMC		IEC/EN 62040-2	
Performance		IEC/EN 62040-3	

*When output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.
Product specifications are subject to change without further notice.

Specifications

MODEL	PRO83330-QS/QL	PRO83340-QS/QL	PRO83360-QL	PRO83380-QL
PHASE	3-phase in/3-phase out			
CAPACITY	30KVA/30KW	40KVA/40KW	60KVA/60KW	80KVA/80KW
PARALLEL CAPABILITY	6			
INPUT				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load			
Frequency Range	46~54 Hz or 56~64Hz			
Power Factor	≥ 0.99 @ 100% load			
Harmonic Distortion (THDi)	<3%			
OUTPUT				
Nominal Voltage	3 x 360*/380/400/415 VAC (3Ph+N)			
Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤ 1 % THD (Linear Load) ≤ 3 % THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	zero		
	Inverter to Bypass	zero		
Waveform (Batt. Mode)	Pure Sine Wave			
Overload	100-110% for 60 min, 110-125% for 10 min, 125%~150% 1min, >150% 400ms			
EFFICIENCY				
AC Mode	96%			
ECO Mode	99% @ battery fully charged			
Battery Mode	96%			
BATTERY				
Standard Model	Battery Type	12V/7AH	12V/9AH	N/A
	Numbers	(16+16)pcs x 2 strings	(16+16)pcs x 2 strings	
	Typical Recharge Time	4 hours recover to 90% capacity		
	Charging Current (max.)	1~12A (Adjustable)	1~16A(Adjustable)	
	Charging Voltage	+/-13.65V*N (N = 16~20)		
Long-run Model	Battery Type	Depending on the application		
	Numbers	(16+16)-(20+20)pcs (Adjustable)		
	Charging Current (max.)	1~12A (Adjustable)	1~16A(Adjustable)	2~24A (Adjustable)
	Charging Voltage	+/-13.65V*N (N = 16~20)		
INDICATORS				
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
PHYSICAL				
Standard Model	Dimension, D x W x H (mm)	815 x 300 x 1000		NA
	Net Weight (kgs)	225	250	
Long-run Model	Dimension, D x W x H (mm)	815 x 300 x 1000		790 x 360 x 1010
	Net Weight (kgs)	60	67	108
IP Rating	IP20			
ENVIRONMENT				
Operation Temperature	0-40°C			
Operation Humidity	<95% and non-condensing			
Noise Level	Less than 65dB @ 1 Meter	Less than 65dB @ 1 Meter	Less than 70dB @ 1 Meter	
SURGE PROTECTION AND FILTERING				
Surge Energy Rating	490J			
MANAGEMENT				
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			
COMPLIANCE STANDARDS				
Safety	IEC/EN 62040-1			
EMC	IEC/EN 62040-2			
Performance	IEC/EN 62040-3			

*When output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.
Product specifications are subject to change without further notice.



Master II Series (3P/3P) – P.F 1.0 Rack/Tower Type

PRO83300-QRS/QRL | 10~20KVA, p.f 1.0



Local Area Network (LAN)



Data Centre



Servers



19" Rack Mount



Prolink **Master II (3P/3P) Series UPS systems** are designed to deliver high power output in compact 3U size modules. UPS output is convertible from 3Ph to 1Ph without changing any component inside.

High input power factor correction and 3-level inverter topology in the design ensures higher input factor, higher AC mode efficiency and reduces overall losses. UPS is also equipped with 3-stage smart charging design to optimize battery performance. Adjustable charging current is available for both standard and long models.

Users can easily monitor and access to their UPS status from a comprehensive touch screen LCD display. UPS operating status and alarms are stored inside event/ data log.

The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

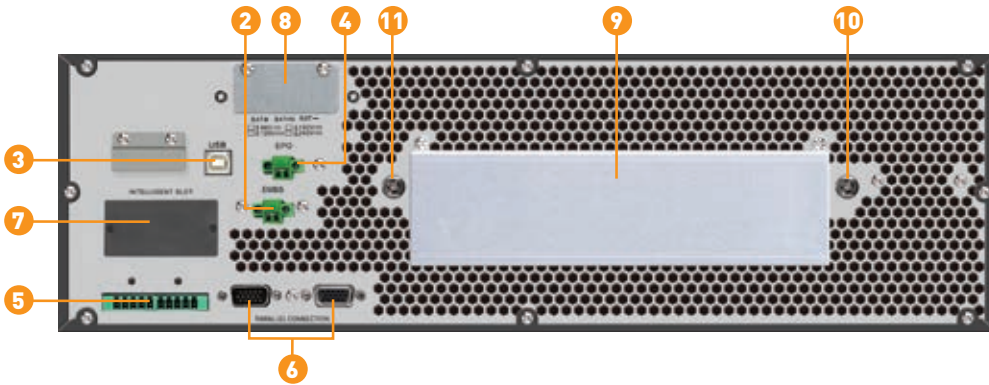
Key Features

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1.0
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers for long-run model
- 3.5" comprehensive touch screen LCD
- Optional parallel redundant configuration (up to 4 units)
- Flexible input/output configuration as 3-Phase in/3-Phase out (or) 3-Phase in/1-Phase out (or) 1-Phase in/1-Phase out

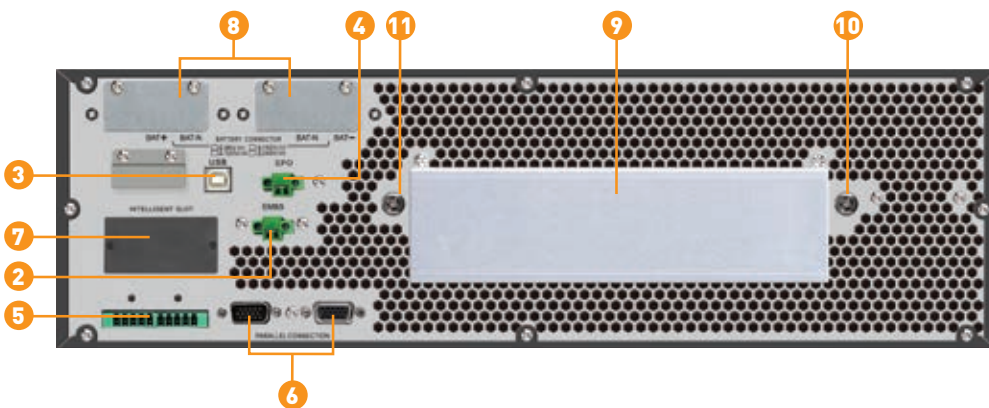
Front & Rear Panel

10-20KVA

- | | |
|---|-------------------------------------|
| 1. Power switch | 7. Intelligent slot |
| 2. External maintenance bypass switch port | 8. External battery connector |
| 3. USB communication port | 9. Input/ Output / Bypass Terminals |
| 4. Emergency power off function connector (EPO connector) | 10. Input grounding terminal |
| 5. Share current port | 11. Output grounding terminal |
| 6. Parallel port | |



PRO 83310-QRS/QRL



PRO 83320-QRS/QRL

Specifications

MODEL	PRO 83310-QRS/QRL		PRO 83320-QRS/QRL	
PHASE	3-Phase in/3-Phase out (or) 3-Phase in/1-Phase out (or) 1-Phase in/1-Phase out			
CAPACITY	10KVA/10KW		20KVA/20KW	
PARALLEL CAPABILITY	4			
INPUT				
Nominal Voltage	3 x 400 VAC (3Ph+N)			
Voltage Range	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load			
Frequency Range	46~54 Hz or 56~64Hz			
Power Factor	≥ 0.99 @ 100% load			
OUTPUT				
Nominal Voltage	3 x 360*/380/400/415 VAC (3Ph+N) or 208/220/ 230/ 240VAC(1PH+N)			
Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤ 2 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)			
Transfer Time	AC mode to Battery mode	zero		
	Inverter to Bypass	zero		
Waveform (Batt. Mode)	Pure Sine Wave			
Overload	100-110% for 60 min, 110-125% for 10 min, 125%~150% 1min, >150% immediately			
EFFICIENCY				
AC Mode	95.5%			
ECO Mode	98.5% @ battery fully charged 94.5%			
Battery Mode				
BATTERY				
Standard Model	Battery Type	12V/9AH		
	Numbers	20 pcs (10+10)	40 pcs (20+20)	
	Charging Current (max.)	1A/2A/3A/4A/5A/6A/7A/8A/9A/10A/11A/12A(Adjustable) 12A maximum		
	Charging Voltage	+/-136.5VDC	+/-273VDC	
Long-run Model	Battery Type	Depending on the application		
	Numbers	20 pcs (10+10)	(16+16)~(20+20) pcs (Adjustable)	
	Charging Current (max.)	1A/2A/3A/4A/5A/6A/7A/8A/9A/10A/11A/12A(Adjustable) 12A maximum		
	Charging Voltage	+/-13.65V*N (N=10)	+/-13.65V*N (N = 16~20)	
INDICATORS				
**LCD Panel (Touch Screen)	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
PHYSICAL				
Standard Model	Dimension, D X W X H (mm)	UPS unit 680X438X133(3U) Battery Pack 580*438*133 (3U)	UPS unit 680X438X133(3U) Battery Pack 580*438*133 (3U) x 2pcs	
	Net Weight (kgs)	UPS unit 34 Battery Pack 63	UPS unit 35 Battery Pack 63 x 2pcs	
Long-run Model	Dimension, D X W X H (mm)	680X438X133(3U)		
	Net Weight (kgs)	34	35	
ENVIRONMENT				
Operation Temperature	0-40°C			
Operation Humidity	<95% and non-condensing			
Noise Level	Less than 65dB @ 1 Meter			
MANAGEMENT				
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			
COMPLIANCE STANDARDS				
Safety	IEC/EN 62040-1			
EMC	IEC/EN 62040-2			
Performance	IEC/EN 62040-3			

*When output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.

** Normal Graphic LCD is available as an option

Product specifications are subject to change without further notice.



Master II Series (3P/3P) - P.F 1.0 Rack Type

PRO83300-QRL | 30~60KVA, p.f 1.0



Local Area Network (LAN)



Data Centre



Servers



19" Rack Mount

Prolink Master II (3P/3P) Series UPS systems are designed to deliver high power output in compact 3U and 4U size power modules.

High input power factor correction and 3-level inverter topology in the design ensures higher input factor, higher AC mode efficiency and reduces overall losses. UPS is also equipped with 3-stage smart charging design to optimize battery performance. Adjustable charging current is available for both standard and long models.

The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.



30KVA



40KVA/60KVA

Key Features

- True double-conversion
- LCD screen auto-rotation with Rack position (only for 10K-30K models)
- DSP technology guarantees high performance
- Output power factor 1
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- Supports dual AC inputs
- Adjustable battery numbers
- Parallel operation with common battery

Specifications

MODEL	PRO83330-QRL	PRO83340-QRL	PRO83360-QRL
PHASE	3-phase in / 3-phase out		
CAPACITY	30KVA/30KW	40KVA/40KW	60KVA/60KW
PARALLEL CAPABILITY	4		
INPUT			
Nominal Voltage	3 x 400 VAC (3Ph+N) or 208*/220/230/240 VAC (Ph-N)		
Voltage Range	190-520 VAC (3-phase) @ 50% load ; 305-478 VAC (3-phase) @ 100% load		
Frequency	46-54 Hz or 56-64Hz		
Power Factor	≥ 0.99 @ 100% load		
OUTPUT			
Nominal Voltage	3 x 360*/380/400/415 VAC (3Ph+N) or 208*/220/230/240 VAC (Ph-N)	3 x 360*/380/400/415 VAC (3Ph+N)	
Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized Range)	46-54Hz or 56-64Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1 (max.)		
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)		
Transfer Time	AC mode to Battery mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)	Pure Sine Wave		
Overload	AC Mode	100-110% for 60 min, 110-125% for 10 min, 125%-150% for 1 min; >150% immediately	
	Battery Mode	100-110% for 60 min, 110-125% for 10 min, 125%-150% for 1 min; >150% immediately	
EFFICIENCY			
AC Mode	95.5%		
ECO Mode	98.5% @ battery fully charged		
Battery Mode	94.5%		
BATTERY			
Battery Type	Depending on the applications		
Battery Numbers	(16+16)-(20+20) pcs (Adjustable)		
Charging Current (max.)	1A-12A (Adjustable)	1A-16A (Adjustable)	1A-18A (Adjustable)
Charging Voltage	+/- 13.65 VDC x N (N=16-20)		
PHYSICAL			
Dimension, D x W x H (mm)	680 x 438 x 133 (3U)	797 x 438 x 176 (4U)	
Net Weight (Kgs)	29	40	45
ENVIRONMENT			
Operating Temperature	0-40°C		
Operating Humidity	< 95 % and non-condensing		
Noise Level	Less than 65dB @ 1 Meter	Less than 70dB @ 1 Meter	
MANAGEMENT			
Smart RS-232/USB	Supports Windows® family, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		
COMPLIANCE STANDARDS			
Safety	IEC/EN 62040-1		
EMC	IEC/EN 62040-2		
Performance	IEC/EN 62040-3		

*When output voltage is set as 3 x 360VAC or 208 VAC, the output power of the unit will be de-rated to 90%. .
Product specifications are subject to change without further notice.



Master II+ Series (3P/1P)-Tower

PRO83100-ES/EL SERIES | 10~30KVA, p.f 0.9



Local Area Network (LAN)



Servers



Emergency Alarm Devices



10KVA

15KVA /20KVA

30KVA

Prolink Master II+ (3P/1P) Series are UPS systems are designed to deliver clean and high quality electrical power to fully protect wide range of critical applications such as sensitive networks, small computer centres, servers, medical equipment, telecom applications as well as industrial applications.

High input power factor correction in the system improves the efficiency and reduces overall losses. In order to have improved performance and real time harmonic cancellation, DSP control technology is implemented for all Master II+ series. UPS is also equipped with 3-stage smart charging design to optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

Maintenance bypass is available for the loads which uptime is critical so that bypass allows seamless transfer of electrical loads from UPS power to mains. Parallel Redundant configuration is available as an option.

Master II+ Tower Series (3P/1P) P.F 0.9 is available in capacities ranging from 10KVA to 30KVA. Programmable power outlet feature is implemented in the system so that during power failure, this enables users to extend battery time to critical devices by shutting down the non-critical devices.

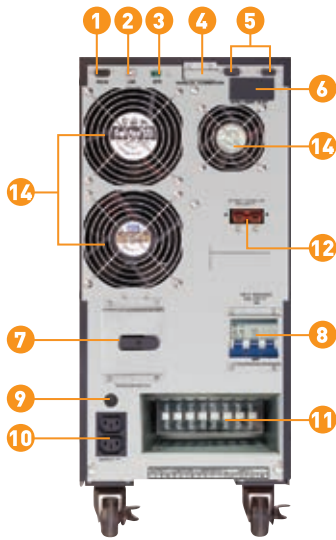
Key Features

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Wide input voltage range (110-300 VAC)
- Active power factor correction in all phases
- Built-in phase auto adapt function simplifies wire installation
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving
- Programmable power management outlets
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Maintenance bypass available
- Optional N+X parallel redundancy

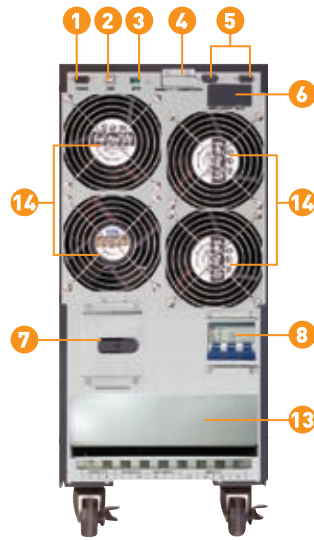
Rear Panel

10-30KVA

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. RS-232 communication port 2. USB communication port 3. Emergency power off function connector (EPO connector) 4. Share current port (optional for parallel configuration) 5. Parallel port (optional for parallel configuration) 6. Intelligent slot 7. Maintenance bypass switch 8. Line input circuit breaker | <ol style="list-style-type: none"> 9. Output circuit breaker for receptacles 10. Output receptacles: connect to mission-critical loads 11. Input/Output terminal 12. External battery connector/terminal (only available for Long-run model) 13. Input/Output/Battery terminal 14. Cooling Fan |
|---|--|



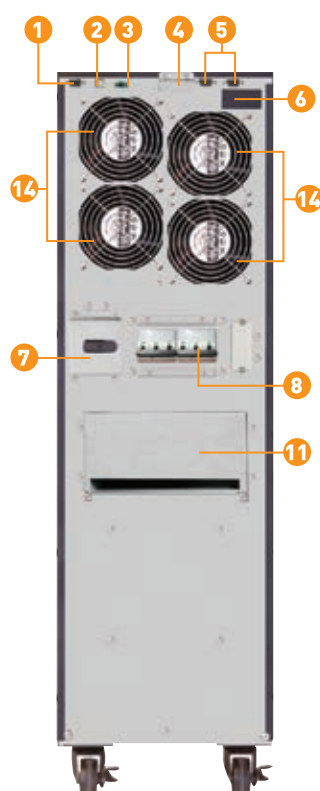
PRO83110-ES/EL



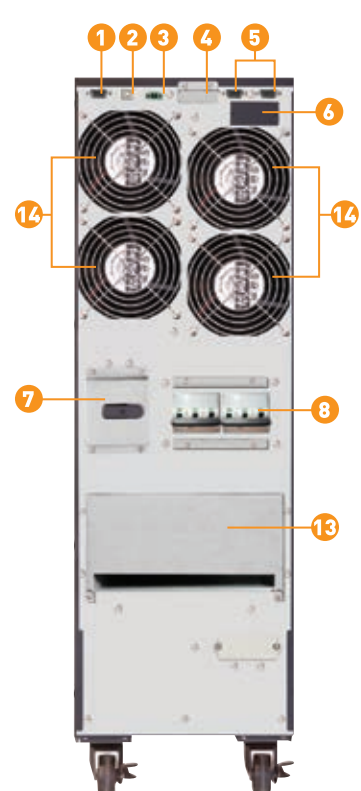
PRO83115-EL/
PRO83120-EL



PRO83115-ES/
PRO83120-ES



PRO83130-ES



PRO83130-EL

Specifications

MODEL		PRO83110-ES/EL	PRO83115-ES/EL	PRO83120-ES/EL	PRO83130-ES/EL
PHASE		3-phase in / 1-phase out			
CAPACITY		10000 VA / 9000 W	15000 VA / 13500 W	20000 VA / 18000 W	30000 VA / 27000 W
PARALLEL CAPABILITY		3			
INPUT					
Nominal Voltage		3 x 400 VAC (3Ph+N)			
Voltage Range		190-520 VAC (3-phase) @ 50% load ; 305-478 VAC (3-phase) @ 100% load			
Frequency Range		46~54Hz or 56~64Hz			
Power Factor		≥ 0.99 @ 100% Load			
THDi		< 6% @ 100% load			
OUTPUT					
Nominal Voltage		208/220/230/240VAC			
Voltage Regulation (Batt. Mode)		± 1%			
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (max.)			
Harmonic Distortion		≤ 2 % THD (Line or Load) ≤ 5 % THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)		Pure Sine Wave			
EFFICIENCY					
AC Mode		91.5%	91.8%	91.8%	92.1%
ECO Mode		97% @ battery fully charged			
Battery Mode		87%	88%	88%	89%
BATTERY					
Standard Model	Battery Type	12 V / 9 Ah			
	Numbers	20 pcs (18 - 20 pcs adjustable)*	20 pcs (18 - 20 pcs adjustable)* x 2 strings		20pcs(18-20pcs adjustable)* x3 strings
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1A	2A	2A	4A
	Charging Voltage	273 VDC ± 1% (Based on 20pcs batteries)			
Long-run Model	Battery Type	Depending on applications			
	Numbers				
	Charging Current (max.)	4A	8A	8A	12A
	Charging Voltage	273 VDC ± 1% (Based on 20pcs batteries)			
INDICATORS					
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
ALARM					
Battery Mode		Sounding every 4 seconds			
Low Battery		Sounding every second			
Overload		Sounding twice every second			
Fault		Continuously sounding			
PHYSICAL					
Standard Model	Dimension, D x W x H (mm)	592 x 250 x 576	815 x 250 x 826		815 x 300 x 1000
	Net Weight (kgs)	83	164	164	234
Long-run Model	Dimension, D x W x H (mm)	592 x 250 x 576	592 x 250 x 576	592 x 250 x 576	815 x 250 x 826
	Net Weight (kgs)	28	40	40	64
IP Rating		IP20			
ENVIRONMENT					
Operating Humidity		0-95 % RH @ 0- 40°C (Non-condensing)			
Noise Level		Less than 58dB @ 1 Meter	Less than 60dB @1 Meter		Less than 65dB @1 Meter
MANAGEMENT					
Smart RS-232 / USB		Supports Windows ² 2000/2003/XP/Vista/ 2008, Windows ² 7/8/10, Linux and MAC			
Optional SNMP		Power management from SNMP manager and web browser			
COMPLIANCE STANDARDS					
Safety		IEC/EN 62040-1			
EMC		IEC/EN 62040-2			
Performance		IEC/EN 62040-3			

* L means long-run model.

**When using internal batteries from 18-19, the unit will de-rate according to below formula: P = P Rating x N/20.

**Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.

Product specifications are subject to change without further notice.



Master II+ Series (3P/1P)-Rack

PRO83100-ERS/ERL SERIES | 10~20KVA, p.f 0.9



Local Area
Network (LAN)



Servers



Emergency Alarm
Devices



19" Rack
Mount



10KVA

15KVA/20KVA

Prolink Master II+ (3P/1P) UPS systems are designed to deliver clean and high quality electrical power to fully protect wide range of critical applications such as sensitive networks, small computer centres, servers, medical equipment, telecom applications as well as industrial applications.

High input power factor correction in the system improves the efficiency and reduces overall losses. In order to have improved performance and real time harmonic cancellation, DSP control technology is implemented for all Master II+ series. UPS is also equipped with 3-stage smart charging design to optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

External maintenance bypass switch port is available for the loads which uptime is critical so that bypass allows seamless transfer of electrical loads from UPS power to mains. Parallel Redundant configuration is available as an option.

Master II+ Rack Series (3P/1P) P.F 0.9 is available in capacities ranging from 10KVA to 20KVA.

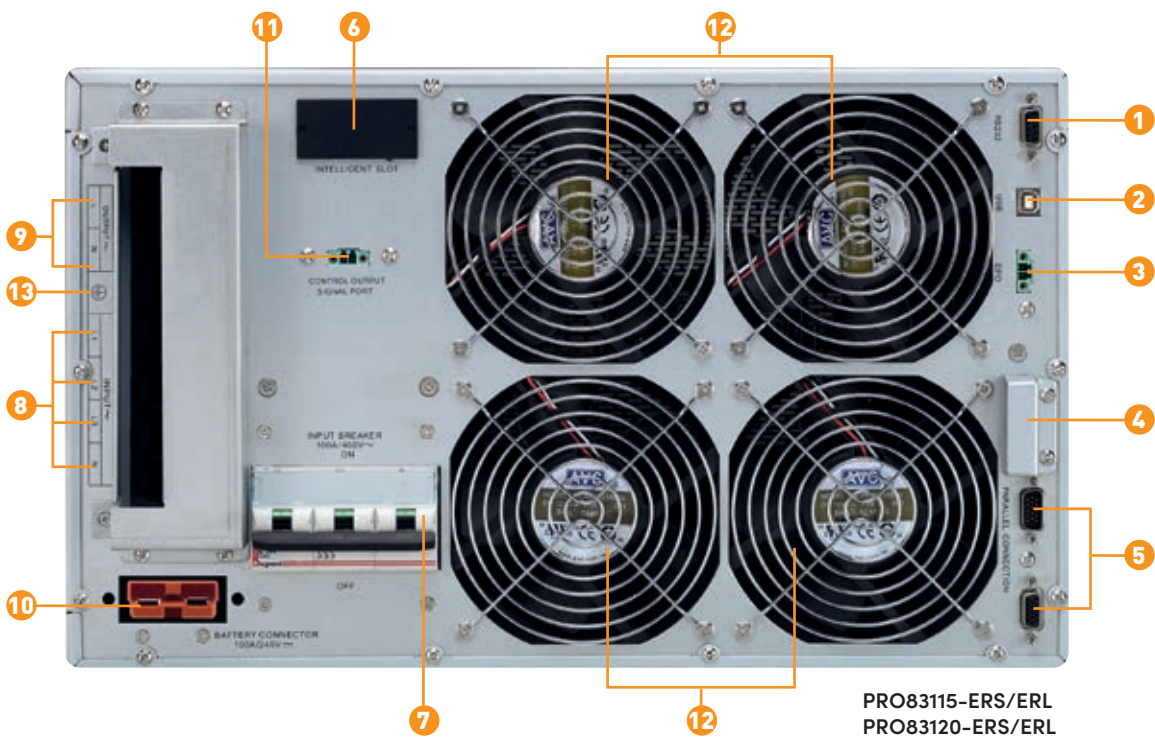
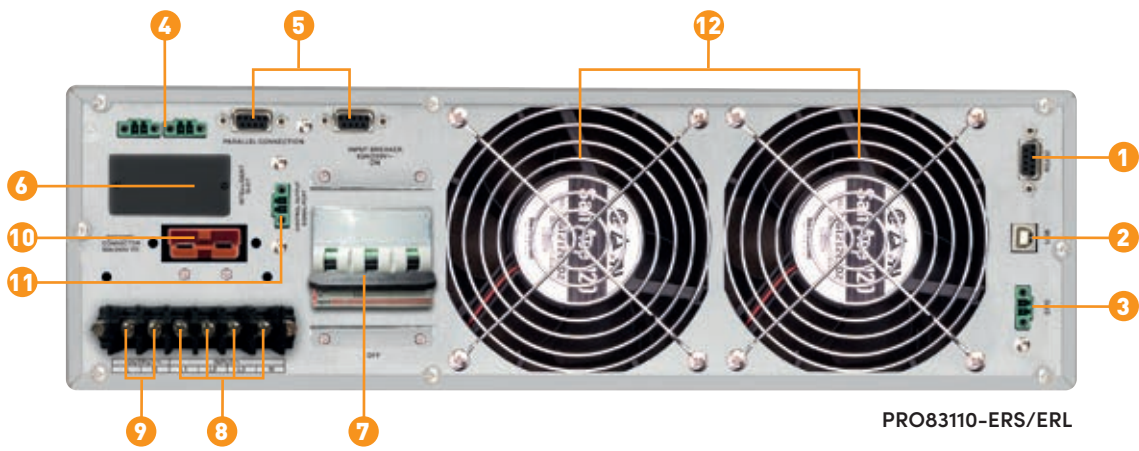
Key Features

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Wide input voltage range (110-300 VAC)
- Active power factor correction in all phases
- Built-in phase auto adapt function simplifies wire installation
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Optional N+X parallel redundancy

Rear Panel

10-20KVA

- 1. RS-232 communication port
- 2. USB communication port
- 3. Emergency power off function connector (EPO connector)
- 4. Share current port (Optional for parallel configuration)
- 5. Parallel port (Optional for parallel configuration)
- 6. Intelligent slot
- 7. Line input circuit breaker
- 8. Utility input terminal
- 9. Output terminal: connect to mission-critical loads
- 10. External battery connector/terminal (only available for Long-run model)
- 11. External maintenance bypass switch port
- 12. Cooling Fan
- 13. Grounding terminal



Specifications

MODEL	PRO83110-ERS/ERL	PRO83115-ERS/ERL	PRO83120-ERS/ERL
PHASE	3-phase in / 1-phase out		
CAPACITY	10000 VA/9000 W	15000 VA/13500 W	20000 VA / 18000 W
PARALLEL CAPABILITY	3		
INPUT			
Nominal Voltage	3 x 400 VAC (3Ph+N)		
Voltage Range	190-520 VAC (3-phase) at 50% load ; 305-478 VAC (3-phase) at 100% load		
Frequency Range	46~54 Hz or 56~64Hz		
Power Factor	≥ 0.99 @ 100% Load		
THDi	< 6% @ 100% Load		
OUTPUT			
Nominal Voltage	208/220/230/240VAC		
Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1		
Harmonic Distortion	≤ 2 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)	Pure Sine Wave		
EFFICIENCY			
AC Mode	90.5%	91%	
ECO Mode	97% @ battery fully charged		
Battery Mode	87%	88%	
BATTERY			
Standard Model	Battery Type	12 V / 9 Ah	
	Numbers	20 (18 - 20 pcs* adjustable)	20 pcs x 2 strings (18 - 20 pcs* adjustable)
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (max.)	1A	2A
	Charging Voltage	273 VDC ± 1% (based on battery numbers at 20 pcs)	
Long-run Model	Battery Type	Depending on the capacity of external batteries	
	Numbers		
	Charging Current (max.)	4A	
	Charging Voltage	273 VDC ± 1% (based on battery numbers at 20 pcs)	
INDICATORS			
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
ALARM			
Battery Mode	Sounding every 4 seconds		
Low Battery	Sounding every second		
Overload	Sounding twice every second		
Fault	Continuously sounding		
PHYSICAL			
Standard Model	Dimension, D x W x H (mm)	UPS unit:668 x 438 x 133 [3U] Battery pack: 580 x 438 x 133 [3U]	UPS unit:668 x 438 x 266 [6U] Battery pack: 580 x 438 x 133 [3U] x 2PCS
	Net Weight (kgs)	UPS unit: 22 Battery pack: 63	UPS unit: 45 Battery pack: 63 x 2 pcs
Long-run Model	Dimension, D x W x H (mm)	668 x 438 x 133 [3U]	
	Net Weight (kgs)	22	
ENVIRONMENT			
Operating Humidity	0-95 % RH @ 0- 40°C (Non-condensing)		
Noise Level	Less than 60dB @ 1 Meter	Less than 65dB @ 1 Meter	
MANAGEMENT			
Smart RS-232 / USB	Supports Windows ² 2000/2003/XP/Vista/2008, Windows ² 7/8/10, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		
COMPLIANCE STANDARDS			
Safety	IEC/EN 62040-1		
EMC	IEC/EN 62040-2		
Performance	IEC/EN 62040-3		

*When using internal batteries from 18-19, the unit will de-rate according to the below formula: P = P Rating x N/20.
Product specifications are subject to change without further notice.



Master II+ Series (3P/3P)-Tower

PRO83300-ES/EL SERIES | 10~30KVA, p.f 0.9



Local Area Network (LAN)



Servers



Emergency Alarm Devices

Prolink Master II+ (3P/3P) Series are UPS systems are designed to deliver clean and high quality electrical power to fully protect wide range of critical applications such as sensitive networks, small computer centres, servers, medical equipment, telecom applications as well as industrial applications.

High input power factor correction in the system improves the efficiency and reduces overall losses. In order to have improved performance and real time harmonic cancellation, DSP control technology is implemented for all Master II+ series. UPS is also equipped with 3-stage smart charging design to optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

Maintenance bypass is available for the loads which uptime is critical so that bypass allows seamless transfer of electrical loads from UPS power to mains. Parallel Redundant configuration is available as an option.

Master II+ Tower Series (3P/3P) P.F 0.9 is available in capacities ranging from 10KVA to 30KVA. UPS ratings from 10KVA to 20KVA accept dual-mains input.



10KVA/15KVA/20KVA

30KVA

Key Features

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Accepts dual-mains inputs (Only for 10K/15K/20K models)
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Maintenance bypass available
- Optional N+X parallel redundancy

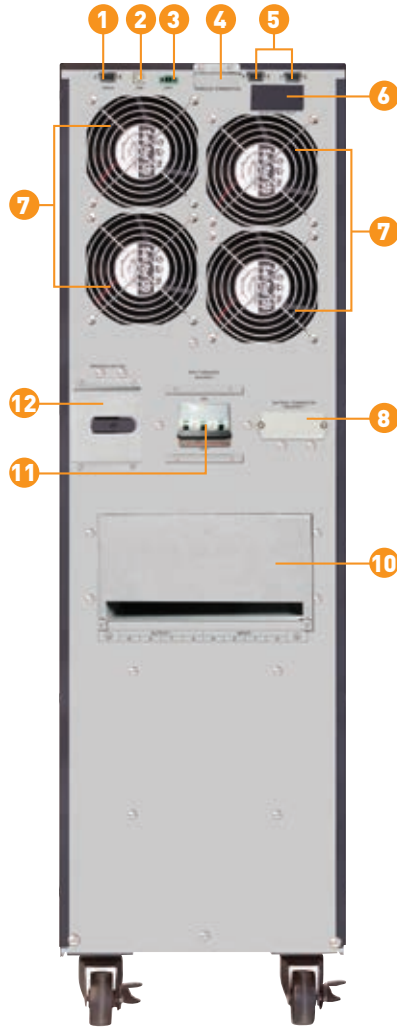
Rear Panel

10-30KVA

1. RS-232 communication port
2. USB communication port
3. Emergency power off function connector (EPO connector)
4. Share current port (only available for parallel configuration)
5. Parallel port (only available for parallel configuration)
6. Intelligent slot
7. Cooling fan
8. External battery connector (Only available for long-run model)
9. Bypass Input Circuit Breaker (Only available for dual input unit)
10. Input/Output terminal
11. Line Input circuit breaker
12. Maintenance bypass switch



PRO83310-ES/EL
PRO83315-ES/EL
PRO83320-ES/EL



PRO83330-ES



PRO83330-EL

Specifications

MODEL	PRO83310-ES/EL	PRO83315-ES/EL	PRO83320-ES/EL	PRO83330-ES/EL	
PHASE	3-phase in / 3-phase out				
CAPACITY	10000 VA / 9000 W	15000 VA / 13500 W	20000 VA / 18000 W	30000 VA / 27000 W	
PARALLEL CAPABILITY	3				
INPUT					
Nominal Voltage	3 x 400 VAC (3Ph+N)				
Input Voltage Range	190-520 VAC (3-phase) at 50% load ; 305-478 VAC (3-phase) at 100% load				
Frequency Range	46~54 Hz or 56~64Hz				
Power Factor	≥ 0.99 @ 100% Load				
OUTPUT					
Nominal Voltage	3 x 400 VAC (3Ph+N)				
Voltage Regulation (Batt. Mode)	± 1%				
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz				
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz				
Current Crest Ratio	3:1 (max.)				
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)				
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)	Pure Sine Wave				
EFFICIENCY					
AC Mode	90.5%	91.5%	91.5%	92.1%	
ECO Mode	97% @ battery fully charged				
Battery Mode	87%	88%	88%	89%	
BATTERY					
Standard Model	Battery Type	12 V / 9 Ah			
	Numbers	20 pcs (18 - 20 adjustable)*	20 pcs (18 - 20 adjustable)* x 2 strings	20pcs (18-20 adjustable)* x 3 strings	
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1A	2A	2A	4A
Long-run Model	Charging Voltage	273 VDC ± 1%			
	Battery Type	Depending on the capacity of external batteries			
	Numbers				
	Charging Current (max.)	4A	4A	4A	12A
Charging Voltage	273 VDC ± 1%				
INDICATORS					
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault				
ALARM					
Battery Mode	Sounding every 4 seconds				
Low Battery	Sounding every second				
Overload	Sounding twice every second				
Fault	Continuously sounding				
PHYSICAL					
Standard Model	Dimension, D x W x H (mm)	815 x 250 x 826	815 x 250 x 826	815 x 250 x 826	815 x 300 x 1000
	Net Weight (kgs)	109	164	164	233.5
Long-run Model	Dimension, D x W x H (mm)	592 x 250 x 826	592 x 250 x 826	592 x 250 x 826	815 x 250 x 826
	Net Weight (kgs)	38	40	40	64
IP Rating	IP20				
ENVIRONMENT					
Operating Humidity	0-95 % RH @ 0- 40°C (Non-condensing)				
Noise Level	Less than 60dB @ 1 Meter	Less than 65dB @ 1 Meter			
MANAGEMENT					
Smart RS-232 / USB	Supports Windows [®] 2000/2003/XP/Vista/2008, Windows [®] 7/8/10, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
COMPLIANCE STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				

*When using internal batteries from 18-19, the unit will de-rate according to below formula: P = P Rating x N/20.
Product specifications are subject to change without further notice.



Master II+ Series (3P/3P)-Rack

PRO83300-ERS/ERL SERIES | 10~20KVA, p.f 0.9



Local Area
Network (LAN)



Servers



Emergency Alarm
Devices



19" Rack
Mount



Prolink Master II+ (3P/3P) Series are UPS systems are designed to deliver clean and high quality electrical power to fully protect wide range of critical applications such as sensitive networks, small computer centres, servers, medical equipment, telecom applications as well as industrial applications.

High input power factor correction in the system improves the efficiency and reduces overall losses. In order to have improved performance and real time harmonic cancellation, DSP control technology is implemented for all Master II+ series. UPS is also equipped with 3-stage smart charging design to optimize battery performance. This feature extends the useful service life of battery and optimizes battery recharge time.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

Maintenance bypass is available for the loads which uptime is critical so that bypass allows seamless transfer of electrical loads from UPS power to mains. Parallel Redundant configuration is available as an option.

Master II+ Rack Series (3P/3P) P.F 0.9 is available in capacities ranging from 10KVA to 20KVA.

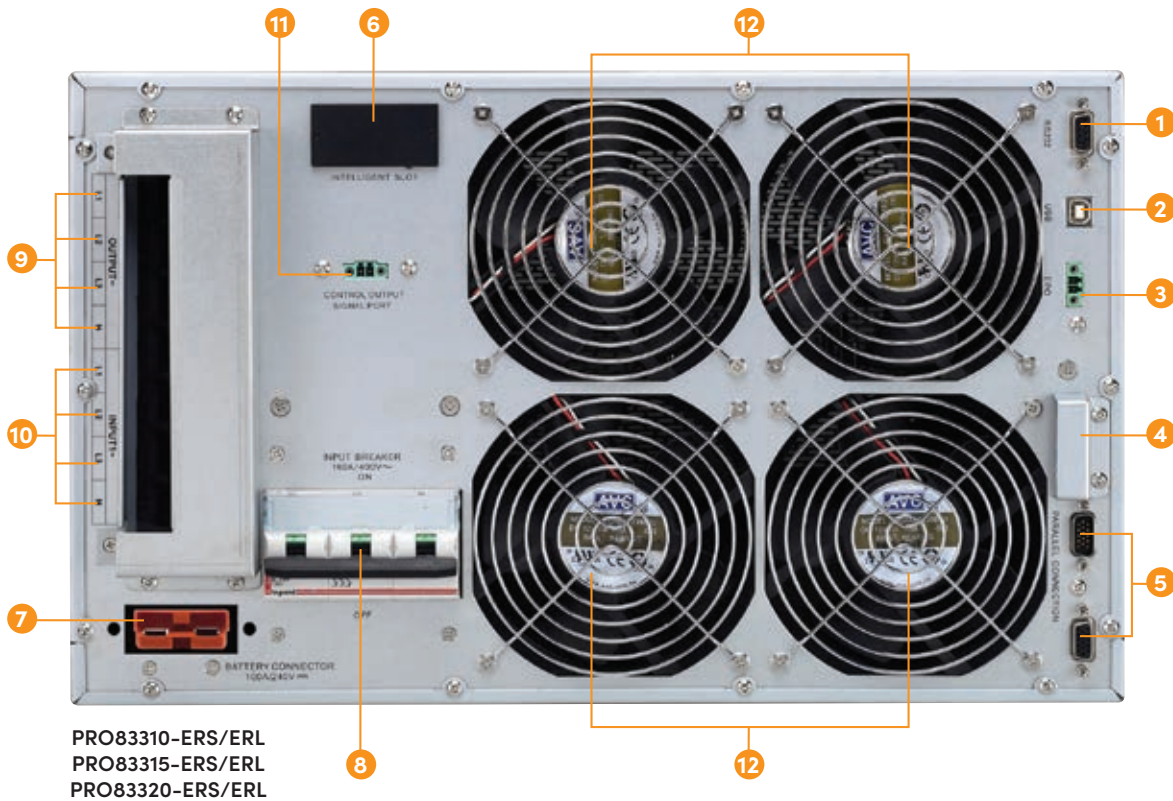
Key Features

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Wide input voltage range (110-300 VAC)
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- Eco mode operation for energy saving (ECO)
- Accepts dual power inputs
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Maintenance bypass available
- Optional N+X parallel redundancy

Rear Panel

10-20KVA

1. RS-232 communication port
2. USB communication port
3. Emergency power off function connector (EPO connector)
4. Share current port (Optional for parallel configuration)
5. Parallel port (Optional for parallel configuration)
6. Intelligent slot
7. External battery connector (Only available for long-run model)
8. Line Input circuit breaker
9. Output terminal: connect to mission-critical loads
10. Utility input terminal
11. External maintenance bypass switch port
12. Cooling fan



Specifications

MODEL		PRO83310-ERS/ERL	PRO83315-ERS/ERL	PRO83320-ERS/ERL
PHASE		3-phase in / 3-phase out		
CAPACITY		10000 VA / 9000 W	15000 VA / 13500 W	20000 VA / 18000 W
PARALLEL CAPABILITY		3		
INPUT				
Nominal Voltage		3 x 400 VAC (3Ph+N)		
Voltage Range		190-520 VAC (3-phase) at 50% load ; 305-478 VAC (3-phase) at 100% load		
Frequency Range		46~54 Hz or 56~64Hz		
Power Factor		≧ 0.99 @ 100% Load		
OUTPUT				
Nominal Voltage		3 x 400 VAC (3Ph+N)		
Voltage Regulation (Batt. Mode)		± 1%		
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio		3:1 (max.)		
Harmonic Distortion		≤ 2% THD (Linear Load) ≤ 5% THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	Zero		
Waveform (Batt. Mode)		Pure Sine Wave		
EFFICIENCY				
AC Mode		90.5%	91.0%	91%
ECO Mode		97% @ battery fully charged		
Battery Mode		86%	87%	87%
BATTERY				
Standard Model	Battery Type	12 V / 9 Ah		
	Numbers	20 pcs (18-20 adjustable)**	20 pcs (18-20 adjustable)** x 2 strings	20pcs (18-20 adjustable)** x 2 strings
	Typical Recharge Time	9 hours recover to 90% capacity		
	Charging Current (max.)	1A	2A	2A
Long-run Model	Charging Voltage	273 VDC ± 1%		
	Battery Type	Depending on the capacity of external batteries		
	Numbers			
	Charging Current (max.)	4A	4A	4A
Long-run Model	Charging Voltage	273 VDC ± 1%		
INDICATORS				
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
ALARM				
Battery Mode		Sounding every 4 seconds		
Low Battery		Sounding every second		
Overload		Sounding twice every second		
Fault		Continuously sounding		
PHYSICAL				
Standard Model	Dimension, DxWxH (mm)	UPS: 668x438x266 [6U] Battery pack : 580x438x133 [3U]	UPS: 668 x 438 x 266 [6U] Battery pack : 580x438x133 [3U] x 2 pcs	UPS: 668 x 438 x 266 [6U] Battery pack : 580 x 438 x 133[3U] x 2 pcs
	Net Weight (kgs)	UPS unit: 42 Battery pack: 63	UPS unit: 45 Battery pack: 63 x 2 pcs	UPS unit: 45 Battery pack: 63 x 2 pcs
Long-run Model	Dimension, DxWxH (mm)	668 x 438 x 266 [6U]	668 x 438 x 266 [6U]	668 x 438 x 266 [6U]
	Net Weight (kgs)	42	45	45
ENVIRONMENT				
Operating Humidity		0-95 % RH @ 0- 40°C (Non-condensing)		
Noise Level		Less than 60dB @ 1 Meter	Less than 65dB @ 1 Meter	
MANAGEMENT				
Smart RS-232 / USB		Supports Windows ² 2000/2003/XP/Vista/2008, Windows ² 7/8/10, Linux and MAC		
Optional SNMP		Power management from SNMP manager and web browser		
COMPLIANCE STANDARDS				
Safety		IEC/EN 62040-1		
EMC		IEC/EN 62040-2		
Performance		IEC/EN 62040-3		

* L means long-run model

**When using internal batteries from 18-19, the unit will de-rate according to below formula: P = P Rating x N/20.
Product specifications are subject to change without further notice.



Master III 3P/3P

PRO833000-QL | 100~200KVA, p.f 1.0



Data
Centre



Servers

Prolink Master III (3P/3P) Series UPS systems are designed to deliver high power output using identical power modules inside the unit.

High input power factor correction and 3-level inverter topology in the design ensures higher input factor, higher AC mode efficiency and reduces overall losses. UPS is also equipped with 3-stage smart charging design to optimize battery performance. Adjustable charging current is available for all models.

Users can easily monitor and access to their UPS status from 7" comprehensive touch screen LCD display. UPS operating status and alarms are stored inside event/ data log.

The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.



Key Features

- **Pluggable power module design with front access to decrease MTTR, parallel redundancy capability for power guarantee**
- **Parallel operation with common battery**
- **Power walk-in function**
- **Dual-mains inputs**
- **Built-in 4 switches including Mains input, bypass input, output and maintenance bypass switch**
- **Flexible battery configuration and adjustable charging current**
- **Output power factor 1.0**
- **Active power factor correction in all phases**
- **Built-in 7" touch LCD screen for comprehensive information**
- **Emergency power off function(EPO)**
- **Generator compatible**
- **50Hz/60Hz frequency converter mode**

Rear Panel

- 7" touch LCD screen
- Dynamic password optimizes service performance
- Adjustable charging current via LCD panel

Parallel operation up to 4 units with common battery



Front View

Pluggable power module for effortless maintenance



100KVA/120KVA
Front Door Open View

Front access design for terminal wiring

Mains input switch/
bypass switch / output switch

Maintenance bypass switch



180KVA/200KVA
Front Door Open View

Pluggable power module for effortless maintenance

Specifications

MODEL	PRO833100-QL	PRO833120-QL	PRO833180-QL	PRO833200-QL
PHASE	3-phase in / 3-phase out			
CABINET CAPACITY	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW
BATTERY TYPE	External Battery			
PARALLEL CAPABILITY	4			
INPUT				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	110-300 VAC @ 50% load; 176-276 VAC @100% load			
Nominal Frequency	50/60Hz (Auto sensing)			
Frequency Range	40Hz ~70Hz			
Power Factor	≥ 0.99 @ 100% load			
Harmonic Distortion (THDi)	< 4% at full linear load			
OUTPUT				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Regulation (Steady state)	≤ ± 1% Typical (balanced load) ≤ ± 2% Typical (unbalanced load)			
Nominal Frequency	50/60Hz			
Frequency Range (Synchronized range)	46Hz ~ 54Hz or 56Hz ~ 64Hz			
Overload Capability	≤ 110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms			
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)			
EFFICIENCY				
AC Mode	95.5%			
ECO Mode	98.5% @ battery fully charged			
Battery Mode	94.5%			
BYPASS				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	-30% ~ +20%			
Frequency Range	46Hz ~ 54Hz or 56Hz ~ 64Hz			
Overload Capability	≤ 110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms			
BATTERY / CHARGER				
Nominal Voltage	+/- 192V ~ +/- 240V (Selectable)			
Maximum Voltage	+/- 240V (12V x 40 Pcs)			
Minimum Voltage	+/- 192V (12V x 32 Pcs)			
Floating Charge Voltage	2.28V / Cell (2.25 ~2.33 Selectable)			
Boost Charging Voltage	2.35V/Cell			
Temperature Compensation	Yes			
Maximum Charging Current (Per Power Module)	24A (Adjustable)	36A (Adjustable)	54A (Adjustable)	54A (Adjustable)
PHYSICAL				
Dimension, D x W x H (mm)	1000 x 430 x 1200	1000 x 430 x 1200	1000 x 600 x 1200	1000 x 600 x 1200
Net Weight (Kgs)	200	200	265	265
IP Rating	IP20			
ENVIRONMENT				
Operating Temperature	0-40°C			
Operating Humidity	< 95 % and non-condensing			
Altitude**	<1000m for Nominal power			
MANAGEMENT				
Smart RS-232/USB	Supports Windows® family, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			
COMPLIANCE STANDARDS				
Safety	IEC/EN 62040-1			
EMC	IEC/EN 62040-2			
Performance	IEC/EN 62040-3			

**If the UPS is installed or used in a placewhere the altitude is above than 1000m, the output power must be derated one percent per 100m. Product specifications are subject to change without further notice.



Giant Series (1P/1P)-Tower

PRO 600-S/L SERIES | 6~10KVA, p.f 0.8



Local Area Network (LAN)



Telecommunication Devices



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices

Prolink Giant Series (1P/1P) true online double conversion UPS systems are using Galvanic Isolation design to withstand all kinds of loads. The UPS applies an advanced digital controller to control the double conversion system, and with an isolated transformer at the output to protect the load and the UPS itself. The system has unique ventilation design for effective heat dissipation. All internal PCBAs are coated to withstand harsh environment. The unit is able to accept wide input voltage and frequency range to withstand robust environment.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser. Giant (1P/1P) series are available in models ranging from 6kVA to 10kVA.



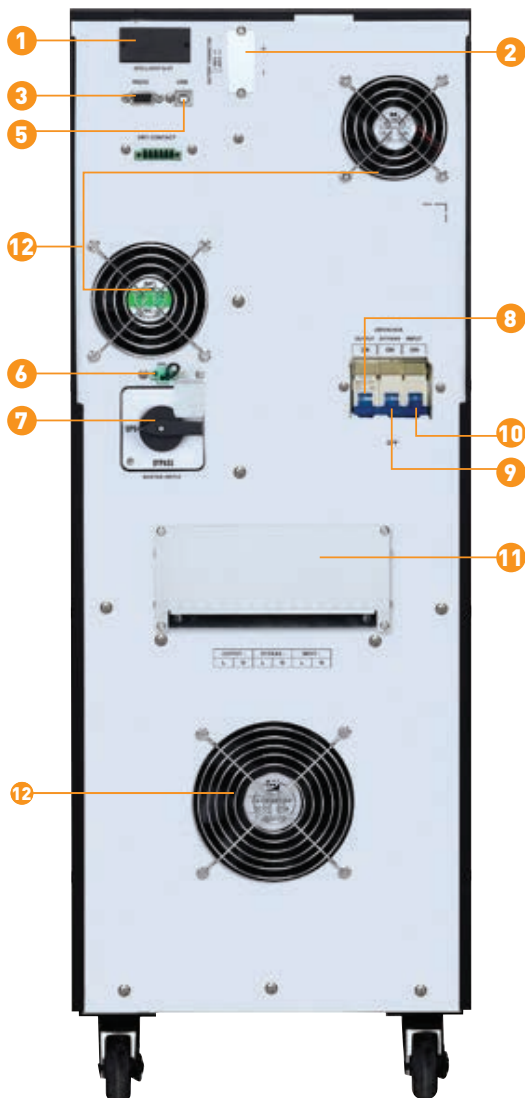
Key Features

- Galvanic isolation design to withstand all kinds of loads
- Output power factor 0.8
- Fully coating PCBAs to withstand harsh environment
- Unique ventilation design for effective heat dissipation
- Wide input voltage and frequency range to withstand robust environment
- High short-circuit and overload capabilities
- Maintenance bypass switch (option)
- Output isolation transformer

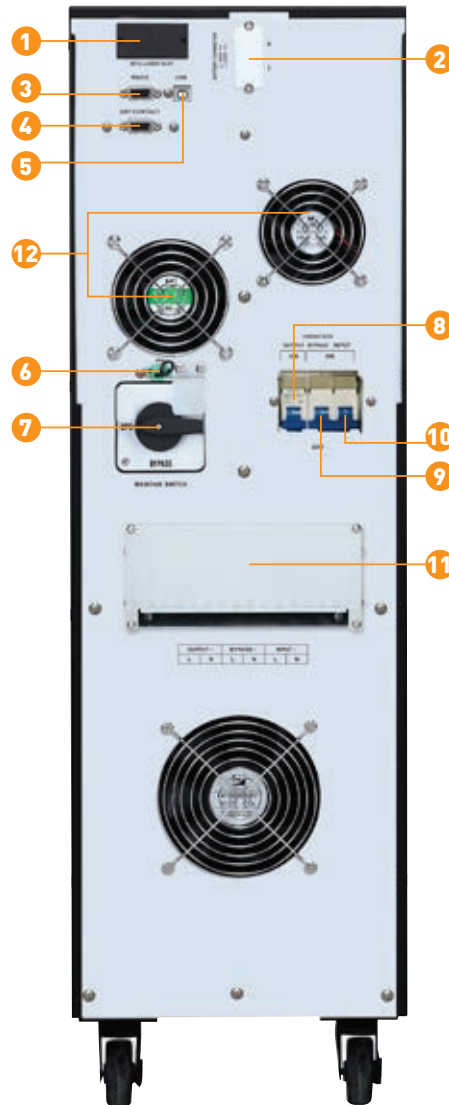
Rear Panel

6-10KVA

1. Intelligent slot
2. External battery connection (External battery bank connection cable to be purchased separately)
3. RS-232 communication port
4. Dry contact port
5. USB communication port
6. Emergency power off function connector (EPO connector)
7. Maintenance bypass switch (option)
8. Output Breaker
9. Bypass Breaker
10. Input circuit breaker
11. Output/Bypass/Input terminal
12. Cooling fan



PRO 606-S/PRO 608-S/PRO 610-S



PRO606-L/PRO608-L/PRO610-L



Specifications

MODEL	PRO606-S/L		PRO608-S/L		PRO610-S/L		
PHASE	Single phase with ground						
CAPACITY	6KVA / 4.8KW		7.5KVA / 6KW		10KVA / 8KW		
INPUT							
Nominal Voltage	208VAC/220VAC/230VAC						
Voltage Range	165VAC ~ 275VAC @ 16 pcs of batteries 185VAC ~ 275VAC @ 18 pcs of batteries						
Frequency	40 Hz ~ 55 Hz @ 50Hz system 56 Hz ~ 64 Hz @ 60Hz system						
OUTPUT							
Nominal Voltage	208VAC/220VAC/230VAC						
Voltage Regulation (Batt. Mode)	± 1%						
Frequency Range (Synchronized Range)	45Hz ~ 55 Hz or 56 Hz ~ 64 Hz						
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz						
Current Crest Ratio	3:1						
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)						
Transfer Time	AC to DC		Zero				
	Inverter to Bypass		Zero				
Waveform (Batt. Mode)	Pure Sine Wave						
EFFICIENCY							
AC Mode	88.3%						
Battery Mode	92%						
BATTERY							
Standard Model	Battery Type	12V / 9Ah					
	Battery Numbers	16pcs					
	Recharge Time	6 hours recovers to 90% capacity					
	Charging Current (max.)	2A					
	Charging Voltage	218.4 V ± 1%					
Long-run Model	Battery Type	Depending on the applications					
	Battery Numbers	16 pcs	18 pcs	16pcs	18 pcs	16pcs	18 pcs
	Charging Current (max.)	Default :8 A ± 10%; Max: 2A, 4A, 8A(Adjustable)					
	Charging Voltage	218.4 V ± 1%	245.7 V ± 1%	218.4 V ± 1%	245.7 V ± 1%	218.4 V ± 1%	245.7 V ± 1%
INDICATORS							
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators						
ALARM							
Battery Mode	Sounding every 4 seconds						
Low Battery	Sounding every second						
Overload	Sounding twice every second						
Fault	Continuously sounding						
PHYSICAL							
Standard Model	Dimensions, DxWxH(mm)	562 x 300 x 830					
	Net Weight (Kgs)	106		122		130	
Long-run Model	Dimensions, DxWxH(mm)	562 x 250 x 830					
	Net Weight (Kgs)	62		78		86	
IP Rating	IP20						
ENVIRONMENT							
Operating Temperature	0 ~ 50°C (battery life cycle will be shorten when temperature is above 25°C)						
Operating Humidity	< 95 % and non-condensing						
Noise Level	Less than 60dBA @ 1 Meter						
MANAGEMENT							
Smart RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7/8/10, Linux, Unix, and MAC						
Dry Contact	Five signals: AC failure, low battery, UPS alarm, bypass and UPS fault						
Optional SNMP	Power management from SNMP manager and web browser						
COMPLIANCE STANDARDS							
Safety	IEC/EN 62040-1						
EMC	IEC/EN 62040-2						
Performance	IEC/EN 62040-3						

Product specifications are subject to change without further notice.



Giant Series (3P/1P)-Tower

PRO63100-GS/GL SERIES | 6~10KVA, p.f 0.8



Local Area Network (LAN)



Telecommunication Devices



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices



Building Management System

Prolink Giant Series (3P/1P) true online double conversion UPS systems are using Galvanic Isolation design to withstand all kinds of loads. The UPS applies an advanced digital controller to control the double conversion system, and with an isolated transformer at the output to protect the load and the UPS itself. The system has unique ventilation design for effective heat dissipation. All internal PCBAs are coated to withstand harsh environment. The unit is able to accept wide input voltage and frequency range to withstand robust environment.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser. Giant (3P/1P) series are available in models ranging from 6kVA to 10kVA.



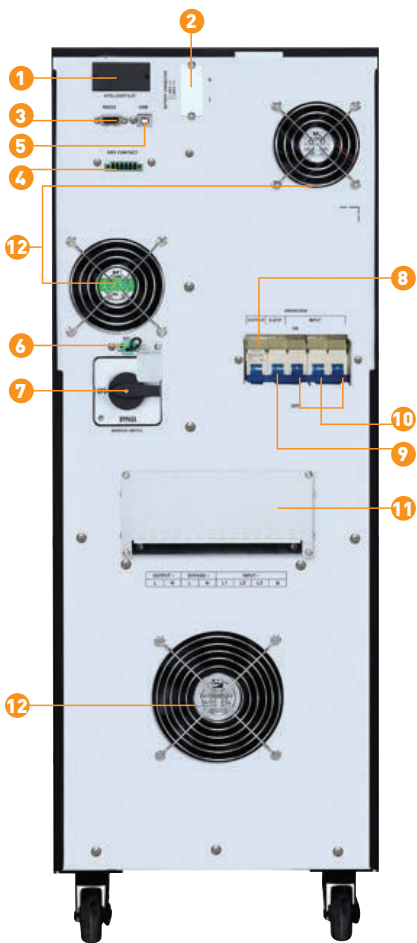
Key Features

- Galvanic isolation design to withstand all kinds of loads
- Output power factor 0.8
- Fully coating PCBAs to withstand harsh environment
- Unique ventilation design for effective heat dissipation
- Wide input voltage and frequency range to withstand robust environment
- High short-circuit and overload capabilities
- Maintenance bypass switch (option)

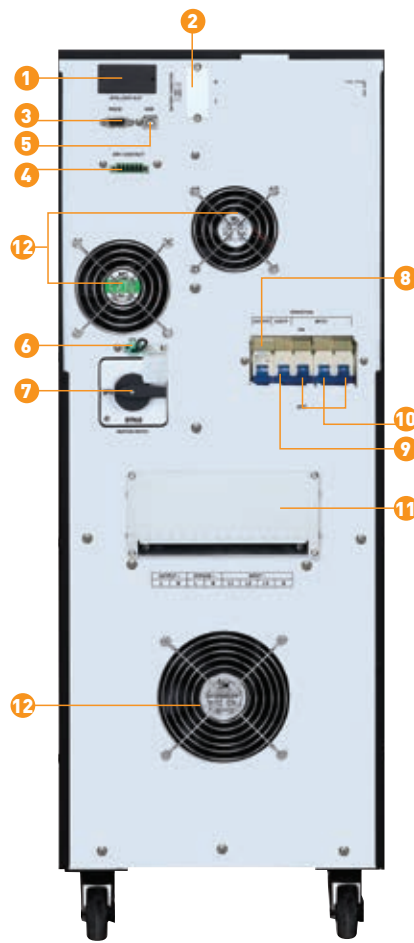
Rear Panel

6-10KVA

1. Intelligent slot
2. External battery connector (Only available for L model)
3. RS-232 communication port
4. Dry contact port
5. USB communication port
6. Emergency power off function connector (EPO connector)
7. Maintenance bypass switch (option)
8. Output Breaker
9. Bypass Breaker
10. Input circuit breaker
11. Out put/Bypass/Input terminal
12. Cooling fan



PRO 63106-GS/PRO 63108-GS/PRO 63110-GS



PRO63106-GL / PRO63108-GL / PRO63110-GL



Specifications

MODEL	PRO63106-GS/GL		PRO63108-GS/GL		PRO63110-GS/GL	
PHASE	3-phase in / 1-phase out					
CAPACITY	6KVA / 4.8KW		7.5KVA / 6KW		10KVA / 8KW	
INPUT						
Nominal Voltage	3 x 360VAC/380VAC/400VAC(3Ph + G or 3Ph + N + G)					
Acceptable Voltage Range	286VAC ~ 476VAC @ 16 pcs of batteries 320VAC ~ 476VAC @ 18 pcs of batteries					
Frequency	40Hz ~ 55Hz @ 50Hz system 57Hz ~ 63Hz @ 60Hz system					
OUTPUT						
Nominal Voltage	208VAC/220VAC/230VAC /240VAC (Selectable)					
Connection Type	Hardwire 3-wire (1Ph+N+G)					
Waveform	Pure Sine Wave					
Output Voltage Stability	Steady state	±1%				
	Transient state	±5%				
Frequency	50 Hz					
Frequency Stability	± 1%					
Frequency Synchronisation Range	± 4Hz (Equal to bypass working range)					
Frequency Synchronisation Speed	1~2 Hz/s					
Crest Factor	3:1					
Total Harmonic Distortion (THDv)	<3% (Linear Load) ; <5% (Non-linear Load)					
Dynamic Recovery Time (III Grade)	0%~100% RCD load : <100 ms recover to 90% of nominal voltage					
Transfer Time	0 ms					
Overload Capability	110%~120% for 30 min. ; 120% ~ 130% for 5 min; >130% for 10 sec.					
Short-circuit Capability	60~100ms					
Transient Response Time	< 5ms					
BYPASS						
Connection Type	Hardwire 3-wire (1Ph+N+G)					
Input Voltage Range	165VAC ~ 275VAC @ 16 pcs of batteries 185VAC ~ 275VAC @ 18 pcs of batteries					
Overload Capability	1.5 In~1.8 In 30s~ 1h					
Short-circuit Capability	1.8 In ~ >2.0 In 200ms~30s					
EFFICIENCY						
AC Mode	87%					
Battery Mode	92%					
BATTERY						
Standard Model	Battery Type	12V / 9Ah				
	Battery Numbers	16pcs				
	Recharge Time	6 hours recovers to 90% capacity				
	Charging Current (max.)	2A				
	Charging Voltage	218.4 V ± 1%				
Long-run Model	Battery Type	Depending on the applications				
	Battery Numbers	16 pcs	18 pcs	16pcs	18 pcs	16pcs 18 pcs
	Charging Current (max.)	2A/4A/8A(selectable)				
	Charging Voltage	218.4 V ± 1%	245.7 V ± 1%	218.4 V ± 1%	245.7 V ± 1%	218.4 V ± 1% 245.7 V ± 1%
PHYSICAL						
Standard Model	Dimensions, DxWxH(mm)	562 x 300 x 830				
	Net Weight (Kgs)	129		152		160
Long-run Model	Dimensions, DxWxH(mm)	562 x 300 x 830				
	Net Weight (Kgs)	84		107		115
IP Rating	IP20					
ENVIRONMENT						
Operating Temperature	0~ 40°C					
Operating Humidity	0~90% (non-condensing)					
Noise Level	Less than 58dBA @ 1 Meter					
MANAGEMENT						
Smart RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7/8/10, Linux, Unix, and MAC					
Optional SNMP	Power management from SNMP manager and web browser					
COMPLIANCE STANDARDS						
Safety	IEC/EN 62040-1					
EMC	IEC/EN 62040-2					
Performance	IEC/EN 62040-3					

Product specifications are subject to change without further notice.



Giant Series 3P/3P-Tower

PRO63300-GL | 10~40KVA, p.f 0.8



Local Area Network (LAN)



Telecommunication Devices



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices



Building Management System

Prolink Giant Series (3P/3P) true online double conversion UPS systems are using Galvanic Isolation design to withstand all kinds of loads. The UPS applies an advanced digital controller to control the double conversion system, and with an isolated transformer at the output to protect the load and the UPS itself. The system has unique ventilation design for effective heat dissipation. All internal PCBAs are coated to withstand harsh environment. The unit is able to accept wide input voltage and frequency range to withstand robust environment.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser. Giant (3P/3P) series are available in models ranging from 10kVA to 40kVA. In addition, the system comes with a parallel redundant configuration option that allows four units to operate in parallel.



Key Features

- DSP technology guarantees high reliability
- Galvanic isolation design to withstand all kinds of loads
- Output power factor 0.8
- Fully coating PCBAs to withstand harsh environment
- Unique ventilation design for effective heat dissipation
- Adjustable battery numbers
- Reverse phase frequency operation and supports non-neutral input
- Supporting heavy duty equipment, half-wave type of load
- Parallel operation up to 4 units
- Output isolation transformer

Specifications

MODEL	PRO63310-GL	PRO63315-GL	PRO63320-GL	PRO63330-GL	PRO63340-GL
PHASE	3-phase in/3-phase out				
CAPACITY	10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW	40KVA/32KW
INPUT					
Nominal Voltage	3 x 380VAC (3Ph + N)				
Acceptable Voltage Range	165VAC ~ 280VAC (Ph-N) ; 285VAC ~ 485VAC (Ph-Ph)				
Frequency	40 Hz ~ 70 Hz				
OUTPUT					
Nominal Voltage	3 x 380VAC (3Ph + N)				
Voltage Regulation	±1%				
Frequency Range (Synchronized Range)	50/60 Hz ± 1%				
Current Crest Ratio	3:1				
Harmonic Distortion (THDv)	<2% (Linear Load) ; <4% (Non-linear Load)				
Transfer Time	AC to DC	Zero			
	Inverter to bypass	Zero			
Waveform	Pure Sine Wave				
BYPASS					
Connection Type	Hardwire 4-wire (3Ph+N)				
Input Voltage Range	176~264VAC (Ph-N) ; 304~456VAC (Ph-Ph)				
Overload Capability	0% ~ 150% continuous working ; 150% ~ 180% 60min~5min ; >180% 5min				
SYSTEM					
Efficiency	AC Mode	89%	90%	91%	91%
	Battery Mode	90%	91%	92%	92%
ECO Mode (Non-parallel models)	Yes				
EPO Function	Yes				
BATTERY & CHARGER					
Battery Type and Numbers	12V sealed lead-acid battery x 32 pcs (29 ~ 32 ps adjustable)				
Nominal Battery Voltage	384 VDC (based on 32pcs batteries)				
Charging Voltage Range	290 ~ 435 VDC				
Charging Current	Default 10A, Maximum=Capacity (KW)/Battery voltage (real-time) *The maximum current is never higher than 40A.			Maximum 40A, 5A@ full load	
PHYSICAL					
Dimensions, D x W x H (mm)	557 x 360 x 898			683 x 450 x 1100	683 x 450 x 1100
Net Weight (Kgs)	108	130	146	220	256
IP Rating	IP20				
ENVIRONMENT					
Operating Temperature	0~ 55°C				
Operating Humidity	5~95% (non-condensing)				
MANAGEMENT					
Smart RS-232/USB	Supports Windows® family, Linux and MAC				
Dry Contacts	Five signals: AC failure, low battery, UPS alarm, bypass and UPS fault				
Optional SNMP	Power management from SNMP manager and web browser				
COMPLIANCE STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				

Product specifications are subject to change without further notice.



Giant I Series -Tower

PRO63100-L, PRO63300-L | p.f 0.8



Local Area Network (LAN)



Telecommunication Devices



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices



Building Management System

Prolink Giant I Series 3 phase UPS system uses true online double conversion technology with galvanic isolation transformer design which guarantees to supply consistent and quality electrical power to protect your mission critical applications. DSP control technology is implemented for the system to have improved performance and high reliability.

All internal PCBAs are coated to withstand harsh environment.

Users can easily monitor and access to their UPS status from a comprehensive LCD display. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser. Giant I (3P/1P) series is available in models ranging from 10kVA to 40kVA and Giant [3P/3P] series is from 10kVA to 200kVA.

In addition, the system comes with a parallel redundant configuration option that allows four units to operate in parallel.



Key Features

- Online double-conversion
- DSP technology guarantees high reliability
- True galvanic isolation transformer design
- Control designed to withstand all kinds of loads
- Intelligent battery management to prolong battery lifecycle
- Redundant fan design and independent ventilation enhance durable operation under harsh environment
- Adjustable battery numbers
- Accept dual-mains input
- Parallel operation with up to 4 units (option)
- Varieties of communication options available
- Optional 7" touch LCD
- Reverse phase frequency operation and supports non-neutral input
- Output Isolation Transformer



Specifications

MODEL	PRO63110-L	PRO63115-L	PRO63120-L	PRO63130-L	PRO63140-L
CAPACITY	10 KVA / 8 KW	15 KVA / 12 KW	20 KVA / 16 KW	30 KVA / 24 KW	40 KVA / 32 KW
INPUT					
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph or 3Ph+N)				
Acceptable Voltage Range	285VAC ~ 475VAC				
Frequency	50/60Hz ±10%				
INVERTER					
Nominal Voltage	220VAC/230VAC/240VAC (Selectable)				
Waveform	Pure Sine Wave				
Output Voltage Stability	Steady state	±1%			
	Transient state	±5%			
Frequency	50 Hz / 60 Hz				
Frequency Stability	± 1%				
Frequency Synchronisation Range	± 5Hz (Equal to bypass working range)				
Frequency Synchronisation Speed	1~2 Hz/s				
Power Factor	0.8				
Crest Factor	3:1				
Total Harmonic Distortion (THDv)	< 2% (Linear Load) < 5% (Non-linear Load)				
Dynamic in-rush Voltage Range	0%->100%->0% (R Load) <±5% ; 20%->100%->20% (R Load) ±3%				
Dynamic Recovery Time (III Grade)	0%~100% RCD load ; <60 ms recover to 90% of nominal voltage				
Transfer Time	0 ms				
Overload Capability	0% ~ 110% continuous running; 110% ~ 150% for 10 min~1 min; >160% for 200ms				
Short-circuit Capability	60~100ms				
Transient Response Time	< 5ms				
BYPASS					
Connection Type	Hardwire 3-wire (1Ph+N+G)				
Input Voltage Range	220VAC ± 25%				
Overload Capability/ Short-circuit Capability	1.5 In~1.8 In 1h~30s				
	1.8 In ~ >2.0 In 30s~200ms				
SYSTEM					
Efficiency (@ linear load)	≥ 90%				
ECO Mode (Non-parallel models)	Yes				
EPO Function	Yes				
BATTERY & CHARGER					
Rectifier	Type	6 pulse			
	Rated output voltage	384 VDC			
	Charger voltage	190VDC ~ 435VDC (Adjustable)			
	Charging current(max)	Default 10A, Maximum=Capacity/Battery Voltage		Default 10A, Maximum 40A, 5A@Full load	
Battery	Type	Support VRLA Battery			
	Numbers	32 pcs (29 ~ 32 adjustable)			
	Cold Start	Yes			
PHYSICAL					
Dimensions, D x W x H (mm)	656 x 405 x 817				821 x 432 x 1159
Net Weight (Kgs)	118	120	145	193	278
IP Rating	IP20				
ENVIRONMENT					
Operating Temperature	0~ 35°C continuous running, 40°C 8-hour running at nominal input voltage, recharging batteries and no overload, 45°C derating to 85% with linear load				
Operating Humidity	0~90% (non-condensing)				
Noise Level	Less than 70dB @ 1 Meter				
MANAGEMENT					
Modbus RS-232/RS485	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC				
Dry Contacts	6 outputs and 2 inputs				
Optional SNMP	Power management from SNMP manager and web browser				
COMPLIANCE STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				

Product specifications are subject to change without further notice.



Specifications

MODEL	PRO 63310-L	PRO 63315-L	PRO 63320-L	PRO 63330-L	PRO 63340-L	PRO 63360-L	PRO 63380-L	PRO 633100-L	PRO 633120-L	PRO 633160-L	PRO 633200-L
CAPACITY	10 KVA / 8 KW	15KVA / 12KW	20 KVA / 16 KW	30 KVA / 24 KW	40 KVA / 32 KW	60 KVA / 48 KW	80 KVA / 64 KW	100 KVA / 80 KW	120 KVA / 96KW	160 KVA / 128KW	200 KVA / 160KW
INPUT											
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph or 3Ph+N)										
Acceptable Voltage Range	285VAC ~ 475VAC										
Frequency	50/60 Hz ± 10 %										
INVERTER											
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N) (Selectable)										
Waveform	Pure Sine Wave										
Output Voltage Stability	Steady state	±1%									
	Transient state	±5%									
Frequency	50 Hz / 60 Hz										
Frequency Stability	± 1%										
Frequency Synchronisation Range	± 5Hz (Equal to bypass working range)										
Frequency Synchronisation Speed	1~2 Hz/s										
Power Factor	0.8										
Crest Factor	3:1										
Total Harmonic Distortion (THDv)	<2% (Linear Load) ; <5% (Non-linear Load)										
Dynamic in-rush Voltage Range	0%~>100%~>0% (R Load) <±5% ; 20%~>100%~>20% (R Load) ±3%										
Dynamic Recovery Time (III Grade)	0%~100% RCD load ; <60 ms recover to 90% of nominal voltage										
Transfer Time	0 ms										
Phase Displacement	120° ±1% (balanced load) ; 120° ±2% (imbalances 50% of the load)										
Admissible Overload	0~110% continuously. 110~150% for 10min~1 min, >160% for 200 ms										
Short-circuit Capability	60~100ms										
Transient Response Time	< 5ms										
BYPASS											
Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)										
Overload Capability/ Short-circuit Capability	1.5 In~1.8 In 1h~30s										
	1.8 In ~ >2.0 In 30s~200ms										
Efficiency (@ linear load)	89%	90%	91%	92%							
ECO Mode (Non-parallel models)	Yes										
EPO Function	Yes										
BATTERY & CHARGER											
Rectifier	Type	6 pulse									
	Rated output voltage	384 VDC									
	Charger voltage	190VDC ~ 435VDC (Adjustable)									
	Charging current(max)	Default 10A, Maximum=Capacity/Battery Voltage									
Battery	Type	Support VRLA Battery									
	Numbers	32 pcs (29~32 pcs adjustable)									
	Cold Start	Yes									
PHYSICAL											
Dimensions, D x W x H (mm)	656 x 405 x 817			656 x 405 x 941	821 x 432 x 1159		975 x 554 x 1286		975 x 635 x 1326	1051x705x1646	
Net Weight (Kgs)	118	120	145	193	278	365	471	573	650	760	840
IP Rating	IP 20										
ENVIRONMENT											
Operating Temperature	0~ 35°C continuous running, 40°C 8-hour running at nomina input voltage, recharging batteries and no overload, 45°C derating to 85% with linear load										
Operating Humidity	0~90% (non-condensing)										
Noise Level	Less than 70dB @ 1 Meter										
COMPLIANCE STANDARDS											
Safety	IEC/EN 62040-1										
EMC	IEC/EN 62040-2										
Performance	IEC/EN 62040-3										

* The maximum current is never higher than 40A.
Product specifications are subject to change without further notice.



Giant II Series 3P/3P

PRO63300-EL | 10~160KVA, p.f 0.9



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices



Industrial Automation



Building Management System

Prolink Giant II Series 3 phase UPS system uses true online double conversion technology with galvanic isolation transformer design which guarantees to supply consistent and quality electrical power to protect your mission critical applications. DSP control technology is implemented for the system to have improved performance and high reliability. All internal PCBAs are coated to withstand harsh environment.

Users can easily monitor and access to their UPS status from 7" comprehensive touch screen LCD display. UPS operating status and alarms are stored inside event/ data log. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

Giant II (3P/3P) series is available in models ranging from 10kVA to 160kVA. In addition, the system comes with a parallel redundant configuration option that allows four units to operate in parallel.



Touch Color LCD

Key Features

- True online double conversion with DSP control
- Output power factor 0.9, customized up to 1.0
- Galvanic isolation eliminates common mode noise and provides the cleanest power in the most demanding conditions
- Conformal coating ensures operation stability and safety in critical environment
- Standard IP31 protection, optional IP42 to withstand harsh environment
- Sustains long-term operation for all types of loads under low input voltage
- Redundant design to guarantee product reliability
- Temperature compensation to prolong battery life
- 7" touch color LCD with customized control setting and accessible informative data of the UPS
- Accepts dual-mains inputs
- Parallel capability up to 4 units
- Optional 40kA surge protection module
- Optional footmaster caster wheel available

Specifications

MODEL	PRO63310-EL	PRO63315-EL	PRO63320-EL	PRO63330-EL	PRO63340-EL	PRO63360-EL	PRO63380-EL	PRO633100-EL	PRO633120-EL	PRO633160-EL		
CAPACITY	10KVA/9KW	15KVA/13.5KW	20KVA/18KW	30 KVA/27KW	40KVA/36KW	60KVA/54KW	80KVA/72KW	100KVA/90KW	120 KVA/108KW	160 KVA/144KW		
INPUT												
Rectifier Type	6 pulse											
Main Input and Bypass Input	Supports dual inputs											
Nominal Voltage	380VAC/400VAC/415VAC											
Acceptable Voltage Range	304VAC ~ 456VAC											
Frequency	50Hz ± 10%											
TVSS	40kA (optional)											
BYPASS												
Nominal Voltage	380VAC/400VAC/415VAC											
Input Voltage Range	285VAC ~ 475VAC											
BATTERY												
Battery Voltage	384 VDC (Adjustable)											
Numbers	32 pcs (29~32 pcs adjustable)											
Type	VRLA Battery											
Charger voltage	290VDC~435VDC (Adjustable)											
Charging current (max)	20A	40A						50A				
Cold Start	Yes											
OUTPUT												
Power Factor	0.9, customized up to 1.0											
Nominal Voltage	380VAC/400VAC/415VAC											
Voltage Regulation	±1%											
Overload Capability	110% continuous running; 125% for 10 min; >150% for 1 min											
SYSTEM												
Efficiency (@ linear load)	≥90%											
ECO Mode (Non-parallel models)	Yes											
EPO Function	Yes											
PHYSICAL												
Dimensions,DxWxH(mm)	656 x 405 x 817		656 x 405 x 941		821 x 432 x 1159		975 x 554 x 1286		975 x 635 x 1326		1051 x 705 x 1646	
Net Weight (Kgs)	120	145	193	278	365	471	573	650	735	790		
IP Rating	IP31 (default), IP42 (optional)											
ENVIRONMENT												
Operating Temperature	0~ 50°C											
Storage Temperature	-25°C ~ 55°C											
Humidity	0~95% (non-condensing)											
Altitude	1000m											
MANAGEMENT												
Modbus RS-232/RS485	Supports Windows® family, Linux and MAC											
Dry Contacts	5 outputs and 4 inputs											
Optional SNMP	Power management from SNMP manager and web browser											
COMPLIANCE STANDARDS												
Safety	IEC/EN 62040-1											
EMC	IEC/EN 62040-2											
Performance	IEC/EN 62040-3											

Product specifications are subject to change without further notice.



Giant Industrial Series

PRO63100-L-384, PRO63300-L-384 | p.f 0.8



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices



Industrial Automation



Building Management System



Users can easily monitor and access to their UPS status from 7" comprehensive touch screen LCD display. UPS operating status and alarms are stored inside event/ data log. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

Key Features

• Patented chassis structure offers 100% front access

Mechanical design with patented structure* allows heat shunt to accomplish 100% front access. It allows easy maintenance and wiring for inputs, outputs and periodically replaced materials.

• Applied advanced graphene coating with industrial-grade components for effective heat dissipation

This UPS is applied advanced graphene coating technology to ensure UPS safe and continuous operation even if fans are not working. Besides, high performance protective coating is applied for PCBA protection from water and environmental corrosion. Installed with skived fin heat sinks and industrial-grade fans, it offers the maximum heat dissipation in applications that have high airflow and small space and dramatically decreases the risk of thermal pollution. This UPS is also compliance with CB standard.

• Standard IP31 protection, optional IP42 kit to withstand harsh environment

With IP31-rated protection, this UPS is allowed for side-by-side operation against the wall. To offer higher-grade protection in harsh industrial environment, we also offers optional IP42 kit .

• International brands of key components with component lifecycle management for extended product lifecycle

We only use international brands of key components such as semiconductors, capacitors, fans and breakers to meet diverse environment. Integrated component recycle management effectively manages and prolongs product lifecycle.

• Redundant design to guarantee product reliability

To guarantee continuous operation of the product in harsh environment, Giant Industrial Series is designed with redundant power supply. Margin design is applied to internal key components to ensure safety operation.

• Parallel capability up to 4 units

Up to 4 units in parallel can be operated without adding additional hardware, increasing system capacity as well as operation reliability for power redundancy.

• Temperature compensation to prolong battery life

Giant Industrial Series is designed with temperature compensation charging to prolong battery life by adjusting voltage depending on ambient temperature. Besides, extra battery tripper connector allows to turn off battery connection forcibly to avoid secondary accident during emergent situation.

• Backfeed protection and in-built 40kA surge protection guarantee safety operation

With backfeed protection installed, the UPS will prevent current from being passed back to the input terminals of the UPS from the inverter output. This is extremely important for safety reason because it enables a service engineer to work on the incoming supply side of the UPS without risk of receiving an electric shock. Built-in 40kA surge protection module reduces downtime and protects sensitive electronic equipment against the damaging effects of transients caused by lightning, utility switching and more.

• 7" colored LCD with customized control setting and accessible informative data of the UPS

Giant Industrial Series is applied 7" color LCD display to provide comprehensive and intuitive UPS information. Users can check UPS status in live power flow diagram, configure UPS setting and access event and fault logs up to 2000 threads.

- Live power flow diagram
- Component lifecycle management
- Event and fault logs up to 2000 threads
- Battery remaining capacity/time
- Parameter setting download and upload
- Fan warning



• Accepts dual-mains inputs

Giant Industrial Series is allowed to connect two separate power inputs to increase operation reliability.

• Isolation Transformer at the output

Galvanic isolation transformer is provided for electrical isolation between UPS output and load. It is also used to protect against electric shock, to suppress electrical noise in sensitive devices.

• Available capacity range

- Giant Industrial series (384VDC) (3P/1P) series is available in models ranging from 10kVA to 80kVA.
- Giant Industrial series (384VDC) (3P/3P) series is available in models ranging from 10kVA to 200kVA.

Specifications
Giant Industrial Series 3P/1P 384VDC

MODEL	PRO63110-L-384	PRO63120-L-384	PRO63130-L-384	PRO63140-L-384	PRO63160-L-384	PRO63180-L-384
CAPACITY	10KVA/ 8KW	20KVA/ 16KW	30KVA/ 24KW	40KVA/ 32KW	60KVA/ 48KW	80KVA/ 64KW
INPUT						
Rectifier Type	6 pulse					
Main Input and Bypass Input	Supports dual inputs					
Nominal Voltage	380VAC/400VAC/415VAC					
Acceptable Voltage Range	304VAC ~ 456VAC					
Frequency	50Hz/60Hz ± 10%					
TVSS	40kA					
BYPASS						
Nominal Voltage	220VAC					
Input Voltage Range	165VAC ~ 275VAC					
BATTERY						
Battery Voltage	384 VDC (Adjustable)					
Numbers	32 pcs (29~32 pcs adjustable)					
Type	VRLA Battery					
Charger voltage	290VDC~435VDC (Adjustable)					
Charging current (max)	20A	40A			50A	
Cold Start	Yes					
OUTPUT						
Power Factor	0.8					
Nominal Voltage	220VAC/230VAC/240VAC					
Voltage Regulation	±1%					
Frequency	50Hz/60Hz ± 1%					
Overload Capability	110% continuous running; 125% for 10 min; >150% for 1 min					
SYSTEM						
Efficiency (@ linear load)	≥ 90%					
ECO Mode (Non-parallel models)	Yes					
EPO Function	Yes					
PHYSICAL						
Dimensions,DxWxH(mm)	800 x 800 x 1800					
Net Weight (Kgs)	285	319	337	387	468	523
IP Rating	IP31 (default), IP42 (optional)					
ENVIRONMENT						
Operating Temperature	0~ 40°C					
Storage Temperature	-25°C ~ 55°C					
Humidity	0~95% (non-condensing)					
Altitude	1000m					
MANAGEMENT						
Modbus RS-232/RS485	Supports Windows® family, Linux and MAC					
Dry Contacts	5 outputs and 4 inputs					
Optional SNMP	Power management from SNMP manager and web browser					
COMPLIANCE STANDARDS						
Safety	IEC/EN 62040-1					
EMC	IEC/EN 62040-2					
Performance	IEC/EN 62040-3					

Product specifications are subject to change without further notice.

Specifications
Giant Industrial Series 3P/3P 384VDC

MODEL	PRO63310 L-384	PRO63320 L-384	PRO63330 L-384	PRO63340 L-384	PRO63360 L-384	PRO63380 L-384	PRO633100 L-384	PRO633120 L-384	PRO633160 L-384	PRO633200 L-384
CAPACITY	10KVA/ 8KW	20KVA/ 16KW	30KVA/ 24KW	40KVA/ 32KW	60KVA/ 48KW	80KVA/ 64KW	100KVA/ 80KW	120KVA/ 96KW	160KVA/ 128KW	200KVA/ 160KW
INPUT										
Rectifier Type	6 pulse						12 pulse			
Main Input and Bypass Input	Supports dual inputs									
Nominal Voltage	380VAC/400VAC/415VAC									
Acceptable Voltage Range	304VAC ~ 456VAC									
Frequency	50Hz/60Hz ± 10%									
TVSS	40kA									
BYPASS										
Nominal Voltage	380VAC/400VAC/415VAC									
Input Voltage Range	285VAC ~ 475VAC									
BATTERY										
Battery Voltage	384 VDC (Adjustable)									
Numbers	32 pcs (29~32 pcs adjustable)									
Type	VRLA Battery									
Charger voltage	290VDC~435VDC (Adjustable)									
Charging current (max)	20A	40A	50A							
Cold Start	Yes									
OUTPUT										
Power Factor	0.8									
Nominal Output Voltage	380VAC/400VAC/415VAC									
Output Voltage Regulation	±1%									
Frequency	50Hz/60Hz ± 1%									
Overload Capability	110% continuous running; 125% for 10 min; >150% for 1 min									
SYSTEM										
Efficiency (@ linear load)	≥ 90%									
ECO Mode (Non-parallel models)	Yes									
EPO Function	Yes									
PHYSICAL										
Dimensions,DxWxH(mm)	800 x 800 x 1800						800 x 1200 x 1800		800 x 1600 x 1800	
Net Weight (Kgs)	290	349	385	427	508	563	760	850	1120	1390
IP Rating	IP31 (default), IP42 (optional)									
ENVIRONMENT										
Operating Temperature	0~ 40°C									
Storage Temperature	-25°C ~ 55°C									
Humidity	0~95% (non-condensing)									
Altitude	1000m									
MANAGEMENT										
Modbus RS-232/RS485	Supports Windows® family, Linux and MAC									
Dry Contacts	5 outputs and 4 inputs									
Optional SNMP	Power management from SNMP manager and web browser									
COMPLIANCE STANDARDS										
Safety	IEC/EN 62040-1									
EMC	IEC/EN 62040-2									
Performance	IEC/EN 62040-3									

Product specifications are subject to change without further notice.



Giant Industrial II Series

PRO63300-EL-384 | 10~160KVA, p.f 0.9



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices



Industrial Automation



Building Management System



Users can easily monitor and access to their UPS status from 7" comprehensive touch screen LCD display. UPS operating status and alarms are stored inside event/ data log. The UPS systems have USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

Giant II (3P/3P) series is available in models ranging from 10kVA to 160kVA. In addition, the system comes with a parallel redundant configuration option that allows four units to operate in parallel.

Key Features

• Patented chassis structure offers 100% front access

Mechanical design with patented structure* allows heat shunt to accomplish 100% front access. It allows easy maintenance and wiring for inputs, outputs and periodically replaced materials.

• Applied advanced graphene coating with industrial-grade components for effective heat dissipation

This UPS is applied advanced graphene coating technology to ensure UPS safe and continuous operation even if fans are not working. Besides, high performance protective coating is applied for PCBA protection from water and environmental corrosion. Installed with skived fin heat sinks and industrial-grade fans, it offers the maximum heat dissipation in applications that have high airflow and small space and dramatically decreases the risk of thermal pollution. This UPS is also compliance with CB standard.

• Standard IP31 protection, optional IP42 kit to withstand harsh environment

With IP31-rated protection, this UPS is allowed for side-by-side operation against the wall. To offer higher-grade protection in harsh industrial environment, we also offers optional IP42 kit.

• International brands of key components with component lifecycle management for extended product lifecycle

We only use international brands of key components such as semiconductors, capacitors, fans and breakers to meet diverse environment. Integrated component recycle management effectively manages and prolongs product lifecycle.

• Redundant design to guarantee product reliability

To guarantee continuous operation of the product in harsh environment, Giant Industrial II Series is designed with redundant power supply. Margin design is applied to internal key components to ensure safety operation.

• Parallel capability up to 4 units

Up to 4 units in parallel can be operated without adding additional hardware, increasing system capacity as well as operation reliability for power redundancy.

• Temperature compensation to prolong battery life

Giant Industrial II Series is designed with temperature compensation charging to prolong battery life by adjusting voltage depending on ambient temperature. Besides, extra battery tripper connector allows to turn off battery connection forcibly to avoid secondary accident during emergent situation.

• Backfeed protection and in-built 40kA surge protection guarantee safety operation

With backfeed protection installed, the UPS will prevent current from being passed back to the input terminals of the UPS from the inverter output. This is extremely important for safety reason because it enables a service engineer to work on the incoming supply side of the UPS without risk of receiving an electric shock. Built-in 40kA surge protection module reduces downtime and protects sensitive electronic equipment against the damaging effects of transients caused by lightning, utility switching and more.

• 7" colored LCD with customized control setting and accessible informative data of the UPS

Giant Industrial II Series is applied 7" color LCD display to provide comprehensive and intuitive UPS information. Users can check UPS status in live power flow diagram, configure UPS setting and access event and fault logs up to 2000 threads.

- Live power flow diagram
- Component lifecycle management
- Event and fault logs up to 2000 threads
- Battery remaining capacity/time
- Parameter setting download and upload
- Fan warning



• Accepts dual-mains inputs

Giant Industrial II Series is allowed to connect two separate power inputs to increase operation reliability.

• Isolation Transformer at the output

Galvanic isolation transformer is provided for electrical isolation between UPS output and load. It is also used to protect against electric shock, to suppress electrical noise in sensitive devices.

• Available capacity range

Giant Industrial II series (384VDC) (3P/3P) series is available in models ranging from 10kVA to 160kVA.

Specifications
Giant Industrial II Series 3P/3P 384VDC

MODEL	PRO63310-EL -384	PRO63320-EL -384	PRO63330-EL -384	PRO63340-EL -384	PRO63360-EL -384	PRO63380-EL -384	PRO633100-EL -384	PRO633120-EL -384	PRO633160-EL -384
CAPACITY	10KVA/ 9KW	20KVA/ 18KW	30KVA/ 27KW	40KVA/ 36KW	60KVA/ 54KW	80KVA/ 72KW	100KVA/ 90KW	120KVA/ 108KW	160KVA/ 144KW
INPUT									
Rectifier Type	6 pulse						12 pulse		
Main Input and Bypass Input	Supports dual inputs								
Nominal Voltage	380VAC/400VAC/415VAC								
Acceptable Voltage Range	304VAC ~ 456VAC								
Frequency	50Hz/60Hz ± 10%								
TVSS	40kA								
BYPASS									
Nominal Voltage	380VAC/400VAC/415VAC								
Input Voltage Range	285VAC ~ 475VAC								
BATTERY									
Battery Voltage	384 VDC (Adjustable)								
Numbers	32 pcs (29~32 pcs adjustable)								
Type	VRLA Battery								
Charger voltage	290VDC~435VDC (Adjustable)								
Charging current (max)	50A								
Cold Start	Yes								
OUTPUT									
Power Factor	0.9, customized up to 1.0								
Nominal Output Voltage	380VAC/400VAC/415VAC								
Output Voltage Regulation	±1%								
Frequency	50Hz/60Hz ± 1%								
Overload Capability	110% continuous running; 125% for 10 min; >150% for 1 min								
SYSTEM									
Efficiency (@ linear load)	≥ 90%								
ECO Mode (Non-parallel models)	Yes								
EPO Function	Yes								
PHYSICAL									
Dimensions,DxWxH(mm)	800 x 800 x 1800					800 x 1200 x 1800		800 x 1600 x 1800	
Net Weight (Kgs)	349	385	427	508	563	760	850	1120	1390
IP Rating	IP31 (default), IP42 (optional)								
ENVIRONMENT									
Operating Temperature	0~ 40°C								
Storage Temperature	-25°C ~ 55°C								
Humidity	0~95% (non-condensing)								
Altitude	1000m								
MANAGEMENT									
Modbus RS-232/RS485	Supports Windows® family, Linux and MAC								
Dry Contacts	5 outputs and 4 inputs								
Optional SNMP	Power management from SNMP manager and web browser								
COMPLIANCE STANDARDS									
Safety	IEC/EN 62040-1								
EMC	IEC/EN 62040-2								
Performance	IEC/EN 62040-3								

Product specifications are subject to change without further notice.



Sorra Series-Rack/ Tower

PRO53100-QRS/PRO53300-QRS (10~100KVA)



Banking and Finance



Data Centre



19" Rack Mount



Servers

Prolink Sorra Rack/Tower Series- P.F 1.0 UPS systems is designed based on true online double conversion to effectively insulate against network disturbances and enable higher load up time. DSP technology guarantees high reliability A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance. Frequency converter mode 50Hz/60Hz is also available for sensitive equipment. Some distinct features of the Prolink Sorra series are as listed below.

Optional LCD

5.7" Graphic LCD and 10" Touch screen LCD are available as an option while more than 1 unit of UPS modules are installed on the IT rack.

Standard 19" form factor with tower/rack convertible design

Designed for easy adjustment, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS. 19" form factor suits for the standard rack so it optimizes cost expense to meet the power demands.



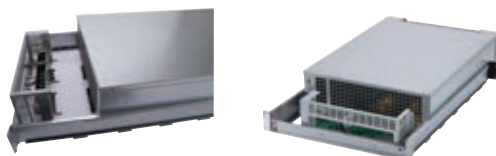
Modular hot-swapping design

SORRA Series is applied with patented modular hot-swapping design to enhance the flexibility of power expansion and maintenance.



Parallel operation with common battery

Compared to general parallel system, multiple Sorra series UPS Modules can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance.



Adjustable battery number design

The number of connected batteries can be adjusted flexibly based on different power demands. External standalone type battery banks can be connected for longer backup requirements.

ECO mode operation for energy saving

ECO mode improves the efficiency up to 97% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

Emergency Power Off (EPO) function

Emergency Power Off (EPO) function is also available for the UPS models and which is used to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

Generator compatible

This UPS can accept generator as power source and still convert perfect power to the connected loads.

17U Cabinet System

Customized System			
Cabinet Height (for modules installation)	17U		
Number of power module	4	2	1
Number of battery module	0	2	3

* This customized system will be using embedded 1U centralized communication unit



Specifications

MODEL		PRO53310-QRS	PRO53110-QRS
PHASE		3 phase in / 3 phase out	3 phase in / 1 phase out
CAPACITY		10000 VA / 10000 W	10000 VA / 10000 W
PARALLEL CAPABILITY		up to 10 modules	
INPUT			
Nominal Voltage		3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)	3 x360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)
Voltage Range		190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load
Frequency Range		40 Hz ~ 70 Hz	
Power Factor		≥ 0.99 @ 100% load	
THDi		< 4% @ full linear load	
OUTPUT			
Output Voltage		360VAC/380VAC/400VAC/415VAC (3Ph+N)	208*/220/230/240VAC(L+N)
AC Voltage Regulation (Batt. Mode)		± 1%	
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz	
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1 (max.)	
Harmonic Distortion		≤ 2% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)	≤ 2% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)
Transfer Time	AC Mode to Batt. Mode	zero	
	Inverter to Bypass	zero	
Waveform (Batt. Mode)		Pure Sine Wave	
EFFICIENCY			
AC Mode		94%	94%
ECO Mode		97% @ battery fully charged	
Battery Mode	At Full Load	91%	91%
	Peak	92%	92%
BATTERY CHARGER			
Battery Voltage		± 12V / 9 Ah	
Battery Numbers		(16+16)~(20+20) pcs (Adjustable)	(16+16)~(20+20) pcs (Adjustable)
Nominal Voltage		+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Maximum Voltage		+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)
Minimum Voltage		+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Charging Voltage		± 218V	± 218V
Typical Recharging Time		9 hours recover to 90% capacity	
Charging Current		± 4A	
INDICATORS			
LCD/LED Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions	
PHYSICAL			
Dimension, D x W x H(mm)		678 x 418W x 132H (3U)	
Net Weight (kgs)		22	22
ENVIRONMENT			
Operating Humidity		0-95 % RH @ 0- 40°C (non-condensing)	
Noise Level		Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter
MANAGEMENT			
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC	
Optional SNMP		Power management from SNMP manager and web browser	
COMPLIANCE STANDARDS			
Safety		IEC/EN 62040-1	
EMC		IEC/EN 62040-2	
Performance		IEC/EN 62040-3	

*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.
Product specifications are subject to change without further notice.



Titan Series (3P/3P)-Tower



Banking and
Finance



Data
Centre



Telecommunication
Devices



Prolink Titan Series is modular three-phase input / three-phase output online double conversion UPS takes scalability to a whole new level. Based on a scalable design, the Titan comes with a wide range of capacity, ranging from as low as 20kVA to as high as 300kVA. The Titan series is designed with a N+X parallel redundancy system that allows two or more UPS modules to operate in parallel and as back-up for each other.

This unit provides an ideal protection for data centres, telecommunication facilities and other critical applications. Up to ten 30kVA modules can be fitted into a standard cabinet to simplify maintenance and replacement activities. The Series guarantees a low mean-time-to-repair (MTTR), giving users a shorter elapsed time between the point of repair and the point of equipment recovery. Some distinct features of the Prolink Titan series are as listed below.

Key Features

High Efficiency Online Double Conversion Technology

Prolink Titan series is designed with the latest online double conversion technology that provides a high efficiency rating of 94.5% at 50% load. With such a high efficiency rating, the Titan can save hundreds of dollars each year.

High Scalability

Based on a scalable design, the Titan Series simplifies future expansion by making UPS units easily upgradable. This architecture allows you to meet power demands by adding additional modules vertically in a single rack enclosure.

Unity Output Power Factor

With a unity output factor (kVA = kW), the Prolink Titan UPS system is 100% compatible with today's high power factor loads. It is able to meet the latest server requirements, giving the best value for your IT investments.

Modular Design Lowers MTTR

The modular design ensures uninterrupted power supply during UPS maintaining and replacing activities. Also, the Titan Series guarantees a low mean-time-to-repair (MTTR), giving users a shorter elapsed time between the point of repair and the point of equipment recovery.

N+1 and N+X Parallel Redundancy for power guarantee

Prolink Titan series is designed with scalable architecture which allows user to optimise cost expense to meet power demands by vertically expanding in a single rack enclosure from 30KVA to 300KVA and achieve N+1 or N+X redundancy in the same rack.

Ease Of Installation and Maintenance

With a built-in maintenance bypass feature, the UPS is able to deliver continuous power to the critical load during maintenance. Better yet, the Titan comes with a front access concept to facilitate installation.

Flexible Battery configuration adapts different applications

Battery numbers can be adjusted flexibly. It will adapt different power demands and shorten system downtime. Battery voltage can be set from 32 to 40 pieces per string.

Highly reliable operation with redundant power supply in STS

Prolink Titan series provides 2 power supplies in STS, ensuring no risks of shut down.

User adjustable charging current

Prolink Titan series provides maximum 8A or 6A charging current for every power module and its user adjustable requirement.

High Overload Capability

Prolink Titan series supports 110 % overload for 60 mins, 125% for 10 mins and 150% for 1 min.

Graphic 5.7" LCD for easy management

For easy management, the intuitive design of 5.7" graphic LCD display enhances the readability of identified and advanced configuration. Optional 10" touch LCD panel is available for the system.

Specifications




MODEL	Titan 30U-90-30HV	Titan 42U-120-30HV	Titan 30U-120-30HV Titan 30U-80-20HV	Titan 30U-180-30HV Titan 30U-120-20HV	Titan 42U-200-20HV	Titan 42U-210-30HV	Titan 42U-300-30HV
PHASE	3-phase in / 3-phase out						
CABINET CAPACITY*	90 KW	120 KW	120 KW or 80 KW	180 KW or 120 KW	200 KW	210 KW	300 KW
BATTERY TYPE	Built-in Battery			External Battery			
ONE POWER MODULE CAPACITY	30KVA / 30KW		30KVA / 30KW or 20KVA / 20KW		20KW	30KVA / 30KW	30KVA / 30KW
MAX. POWER MODULE NO.	3	4	4	6	10	8	10
MAX. BATTERY SET NO.**	3	5	-	-	-	-	-
INPUT							
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)						
Voltage Range	305 ~ 478 VAC at 100% load; 208 ~ 304VAC at <70% load						
Nominal Frequency	50/60Hz (Auto Sensing)						
Frequency Range	40Hz ~70Hz						
Power Factor	> 0.99 @ 100% Load , >0.98 @ 50% Load						
Harmonic Distortion (THDi)	< 3% @ 100% load						
OUTPUT							
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)						
Voltage Regulation(Steady state)	≤ ± 1% Typical (balanced load) ; ≤ ± 2% Typical (imbalanced load)						
Nominal Frequency	50/60Hz						
Frequency Range(Synchronized)	46Hz ~ 54Hz or 56Hz ~ 64Hz						
Overload Capability	1 hour for 110%, 10 mins for 125%;; 1 min for 150%, 200ms for >150%						
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)						
Efficiency	>94.5% (AC Mode) >98% (ECO Mode)						
BATTERY / CHARGER							
Nominal Voltage	+/- 216V (12V x 36 pcs)						
Maximum Voltage	+/- 240V (12V x 40 pcs)						
Minimum Voltage	+/- 192V (12V x 32 pcs)						
Float Charging Voltage	2.25V / Cell						
Boost Charging Voltage	2.35V / Cell						
Temperature Compensation	Yes						
Maximum Charging Current (Per Power Module)	8A	8A for 30KW power module 6A for 20KW power module		6A	8A		
PHYSICAL							
Cabinet Dimension (DxWxH) mm	1100 x 600 x 1475	1100 x 600 x 2010	1100 x 600 x 1475	1100 x 600 x 1475	1100 x 600 x 2010		
Net Weight (Kg)	675	932	335 or 333	437.5 or 434.5	611	549	620
IP Rating	IP 20						
ENVIRONMENT							
Operating Temperature	0 ~ 40°C						
Relative Humidity	0 ~ 95% non-condensing						
Altitude	<1000m for Nominal power						
MANAGEMENT							
Smart RS-232 / USB	Supports Windows ² 2000/2003/XP/Vista/2008, Windows ² 7/8/10, Linux and MAC						
Optional SNMP	Power management from SNMP manager and web browser						
COMPLIANCE STANDARDS							
Safety	IEC/EN 62040-1						
EMC	IEC/EN 62040-2						
Performance	IEC/EN 62040-3						

*When temperature is above 30°C, the output power factor will be de-rated, 0.9 at 31°C~35°C and 0.8 at 36°C~40°C.

** One battery module contains 10 pcs of 12V/7Ah or 12/9Ah sealed lead acid batteries in one tray. One complete battery set contains 4 battery modules.

***If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

Product specifications are subject to change without further notice.

MODEL	Description	Dimension DxWxH(mm)	Weight (kg)
PM-20HV 	3P/3P 20KVA / 20KW power module	736.5 x 490 x 133 (3U)	34
PM-30HV 	3P/3P 30KVA / 30KW power module	736.5 x 490 x 133 (3U)	34.5
Battery Module 	10 pcs of 12V 9Ah batteries	710 x 107 x 154	26



Titan Plus Series (3P/3P)-Tower

Titan Plus Series | 60kW Power Modules



Data
Centre



Telecommunication
Devices



480KVA 8 modules
600KVA 10 modules

300KVA 5 modules
420KVA 7 modules

120KVA 2 modules
180KVA 3 modules

Prolink Titan Plus Series is modular three-phase input / three-phase output online double conversion UPS takes scalability to a whole new level. Based on a scalable design, the Titan Plus series comes with a wide range of capacity, ranging from as low as 60kVA to as high as 600kVA. The Titan Plus series is designed with a N+X parallel redundancy system that allows two or more UPS modules to operate in parallel and as back-up for each other.

This unit provides an ideal protection for data centres, telecommunication facilities and other critical applications. Up to ten 60kVA modules can be fitted into a standard cabinet to simplify maintenance and replacement activities. The Series guarantees a low mean-time-to-repair (MTTR), giving users a shorter elapsed time between the point of repair and the point of equipment recovery. Some distinct features of the Prolink Titan Plus series are as listed below.

Key Features

High Efficiency Online Double Conversion Technology

Prolink Titan Plus series is designed with the latest online double conversion technology that provides a high efficiency rating of >96% (AC Mode) and >99% (ECO Mode) at 100% load. With such a high efficiency rating, the Titan Plus Series can save hundreds of dollars each year.

High Scalability

Based on a scalable design, the Titan Plus Series simplifies future expansion by making UPS units easily upgradable. This architecture allows you to meet power demands by adding additional modules vertically in a single rack enclosure.

Unity Output Power Factor

With a unity output factor (kVA = kW), the Prolink Titan Plus UPS system is 100% compatible with today's high power factor loads. It is able to meet the latest server requirements, giving the best value for your IT investments.

Modular Design Lowers MTTR

The modular design ensures uninterrupted power supply during UPS maintaining and replacing activities. Also, the Titan Plus Series guarantees a low mean-time-to-repair (MTTR), giving users a shorter elapsed time between the point of repair and the point of equipment recovery.

High Overload Capability

Prolink Titan Plus series supports 110 % overload for 60 mins, 125% for 10 mins and 150% for 1 min.

N+1 and N+X Parallel Redundancy for power guarantee

Prolink Titan Plus series is designed with scalable architecture which allows user to optimise cost expense to meet power demands by vertically expanding in a single rack enclosure from 60kVA to 600kVA and achieve N+1 or N+X redundancy in the same rack.

Flexible Battery configuration adapts different applications

Battery numbers can be adjusted flexibly. It will adapt different power demands and shorten system downtime. Battery voltage can be set from 32 to 40 pieces per string.

User adjustable charging current

Prolink Titan Plus series provides maximum 18A charging current for every power module and its user adjustable requirement.

10" Touch screen LCD for easy management

For easy management, 10" touch screen graphic LCD display enhances the readability of identified and advanced configuration.

Built-in Dynamic Password Protection

Dynamic password protection is provided for secure access to the UPS LCD setting parameters.

Power Walk-In Function

Prolink Titan Plus supports Power walk-in function to run the module from battery mode to AC online mode one by one in order to reduce the impact to the AC source after returns.

Product Outlook

- 10" touch LCD screen
- Dynamic power flow in color screen
 - Operation status for each power module
 - Adjustable charging current via LCD panel

1+1 Cabinet Parallel Operation



Specifications

MODEL	Titan+ 30U-120-60	Titan+ 30U-180-60	Titan+ 42U-300-60	Titan+ 42U-420-60	Titan+ 42U-480-60	Titan+ 42U-600-60
PHASE	3-phase in / 3-phase out					
CABINET CAPACITY*	120 KW	180 KW	300 KW	420KW	480KW	600KW
BATTERY TYPE	External Battery					
ONE POWER MODULE CAPACITY	60KVA / 60KW					
MAX. POWER MODULE NO.	2	3	5	7	8	10
INPUT						
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)					
Voltage Range	-30% ~ +20%					
Nominal Frequency	50/60Hz (Auto Sensing)					
Frequency Range	40Hz ~70Hz					
Power Factor	> 0.99 @ 100% Load , >0.98 @ 50% Load					
Harmonic Distortion (THDi)	< 3% @ 100% load					
OUTPUT						
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)					
Voltage Regulation(Steady state)	≤ ± 1% Typical (balanced load) ; ≤ ± 2% Typical (unbalanced load)					
Nominal Frequency	50/60Hz					
Frequency Range(Synchronized)	46Hz ~ 54Hz or 56Hz ~ 64Hz					
Overload Capability	1 hour for ≤ 110%, 10 mins for 111% ~ 125%, 1 min for 126%~150% and 200ms for >150%					
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)					
Efficiency	> 96% (AC Mode) and > 99% (ECO Mode)					
BATTERY / CHARGER						
Nominal Voltage	+/- 192V ~ +/- 240V (Selectable)					
Maximum Voltage	+/- 240V (12V x 40 Pcs)					
Minimum Voltage	+/- 192V (12V x 32 Pcs)					
Floating Charge Voltage	2.28V / Cell (2.25 ~2.33 Selectable)					
Boost Charging Voltage	2.35V/Cell					
Temperature Compensation	Yes					
Maximum Charging Current (Per Power Module)	18A (Adjustable)					
PHYSICAL						
Cabinet Dimension (D x W x H) mm	1100 x 600 x 1475	1100 x 600 x 1475	1100 x 600 x 2010	1100 x 600 x 2010	1065 x 1000 x 2000	1065 x 1000 x 2000
Net Weight (Kg)	308	352	516	654	932	1020
IP Rating	IP 20					
ENVIRONMENT						
Operating Temperature	0 ~ 40°C					
Relative Humidity	0 ~ 95% non-condensing					
Noise Level	Less than 70dB @ 1 Meter					
Altitude*	<1000m for Nominal power					
MANAGEMENT						
Smart RS-232 / USB	Supports Windows® family, Linux and MAC					
Optional SNMP	Power management from SNMP manager and web browser					
STANDARDS						
Safety	IEC/EN 62040-1					
EMC	IEC/EN 62040-2 Category C3					

***If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m. Product specifications are subject to change without further notice.

Model	Description	Dimension DxWxH(mm)	Weight (kg)
PM-60	3P/3P 60KVA/60KW power module	750 x 438 x 130 (3U)	44



PRO-R Series

PRO1000RS/RL SERIES



Local Area Network (LAN)



Telecommunication Devices



PRO-R Series is transformer-less design with slim 1U form factor, perfect to fit for data processing and transmission such as servers, networking and IP telephone services. Despite its truly compact size, just 44 mm, it offers the same intelligent performance as any other online UPS.

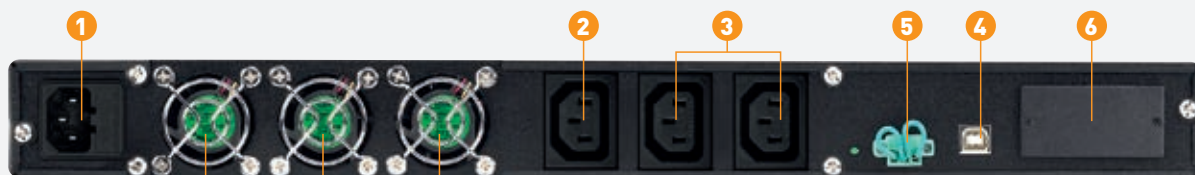
With true double-conversion technology, it provides clean, high level quality power to fully protect mission-critical devices. With Built-in master and slave output segments, PRO-R series UPS will automatically shut down the power to two slave output receptacles when the master device is no longer drawing current. Besides, it is designed with easy-replaceable battery design to simplify battery replacement within few minutes and shorten system downtime.

In addition, Emergency Power Off (EPO) function is also available the UPS models and which is used to protect the personnel and the equipment in case of fire outbreak or other types of emergency.

Rear Panel

1KVA

- 1. AC input
- 2. Output receptacle: connect to mission-critical loads
- 3. Programmable outlets: connect to non-critical loads
- 4. USB/RS-232 serial communication port
- 5. ROO/RPO function connector
- 6. SNMP intelligent slot
- 7. Dry contact
- 8. External battery connector
- 9. Cooling fan



PRO1000RS



PRO1000RL

Specifications

MODEL	PRO1000RS	PRO1000RL
CAPACITY	1000 VA / 800 W	
INPUT		
Voltage	220/230/240 VAC	220/230/240 VAC
Voltage Range	110-300 VAC @ 50% load 160-300 VAC @ 100% load	110-300 VAC @ 50% load 160-300 VAC @ 100% load
Frequency Range	40Hz ~ 70 Hz	
Phase	Single phase with ground	
Power Factor	≥ 0.99 @ Nominal voltage (full load)	
OUTPUT		
Output voltage	110/120 VAC or 220/230/240 VAC	
AC Voltage Regulation	± 1%	
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz	
Frequency Range (Bat. Mode)	60Hz or 50 Hz± 0.3 Hz	
Overload	100%~105%: audible warning 105%~130%: UPS shuts down in 10 seconds at battery mode or transfers to bypass mode after 2min when the utility is normal. >130%: UPS shuts down immediately at battery mode or transfer to bypass mode after 10s when the utility is normal.	
Current Crest Ratio	5:1 for 110/120 VAC system or 3:1 for 220/230/240 VAC systems	
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)	
Transfer Time	AC Mode to Bat Mode	Zero
	Inverter to Bypass	4 ms (Typical)
Waveform (Bat Mode)	Pure Sine Wave	
EFFICIENCY		
AC Mode	86%	
Battery Mode	83%	
BATTERY		
Battery Type	6 V / 9 AH	Lithium-iron battery or Sealed Lead-acid battery (Battery voltage: 48VDC)
Numbers	4	
Recharge Time	9 hours recover to 90% capacity	
Charging Current	1A	6A
PHYSICAL		
Dimension, D X W X H (mm)	477 x 438 x 44	300 x 438 x 44
Net Weight (kg)	12.6	6
ENVIRONMENT		
Operation Humidity	20-90 % RH @ 0-50°C (non-condensing)	20-90 % RH @ 0-55°C (non-condensing)
Noise Level	Less than 50dBA @ 1 Meter	
MANAGEMENT		
USB/RS-232	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC	
Optional SNMP	Power management from SNMP manager and web browser	

*1KL is only available in 220/230/240VAC system.

Product specifications are subject to change without further notice.

LINE INTERACTIVE
UNINTERRUPTIBLE
POWER SUPPLY



PRO SFC SERIES | 650VA-2000VA

Super Fast Charging

True AVR

Wide Input Voltage

Overload Protection

Over Temperature Protection

Surge Protection

Early Shutdown Warning System

Universal Socket


Prolink SFC series is a single-phase input/ single-phase output Line-Interactive UPS system with Prolink's latest Super-Fast Charging technology. This cutting-edge technology is able to recharge the battery back to 90% of its capacity within 2-4 hours, and is ideal for providing stable backup power to home/ small office applications. A wide input voltage range is supported due to the integrated 3-Step AVR which features 2 boosts and 1 buck to regulate output voltage. This prevents under voltage brownouts and over voltage surges. The unit also comes with universal sockets to provide better compatibility with a wider range of devices.

Key Features

- **Built-in super fast charger, battery can be recharged to 90% of its capacity within 2-4 hours**
- **Excellent microprocessor control guarantees high reliability**
- **Boost and buck AVR for voltage stabilization**
- **Auto restart while AC is recovering**
- **Simulated sine wave**
- **Off-mode charging**
- **Cold start function**
- **Optional USB communication port**
- **Optional HID Compliant USB (For SFCU Models)**

Rear Panel

650-2000VA

- 1. AC input
- 2. Backup Output
- 3. USB Port (Only available in SFCU series)
- 4. RJ11/ RJ45 Ports
- 5. Cooling Fan



PRO700SFC/SFCU



PRO851SFCU



PRO1201SFC/SFCU
PRO1250SFC/SFCU



PRO1501SFC/SFCU
PRO2000SFC/SFCU

Specifications


MODEL	PRO700SFC/SFCU	PRO851SFC/SFCU	PRO1201SFC/SFCU	PRO1250SFC/SFCU	PRO1501SFC/SFCU	PRO2000SFC/SFCU
CAPACITY	650VA	850VA	1200VA	1250VA	1500VA	2000VA
INPUT						
Nominal Voltage	230VAC					
Voltage Range	140 - 300 VAC ± 5%					
Frequency	50Hz/60Hz (Auto sensing)					
OUTPUT						
Nominal Voltage	230VAC					
Voltage Regulation (Battery Mode)	± 10%					
Frequency	50Hz/60Hz ± 1Hz					
Transfer Time (Typical)	2ms					
Waveform	Simulated Sine Wave					
BATTERY						
Number of Battery	12 V/8.2 Ah	12 V/10 Ah	12 V/8.2 Ah		12 V/10 Ah	
Recharge Time (Typical)	2-4 hours recover to 90% capacity					
PROTECTION						
Full Protection	Short Circuit, Overload, Discharge and Overcharge Protection					
INDICATION						
LED Display	AC Mode - Green Lighting					
	Battery Mode - Yellow Flashing every 10 seconds					
	Overload - Red Flashing every second					
	Fault - Red Lighting					
ALARM						
Sounding	Battery Mode - Sounding every 10 seconds					
	Low Battery - Sounding every second					
	Overload - Sounding every 0.5 seconds					
	Battery Replacement Alarm - Sounding every 2 seconds					
	Fault - Continuously sounding					
PHYSICAL						
Dimension (mm) D x W x H	279 x 101 x 142			320 x 130 x 182		
Net Weight (kgs)	4.2	4.9	8.2	9.2	10.4	10.6
ENVIRONMENT						
Humidity	0-90 % RH @ 0- 40°C (Non-condensing)					
Noise Level	Less than 40dB					
MANAGEMENT						
USB	Support Windows® XP/Vista/2008/7/8/10, Linux and Mac					

Product specifications are subject to change without further notice.

PRO SFT SERIES I 650VA-2000VA



Super Fast Charging



True AVR



Wide Input Voltage



Overload Protection



Over Temperature Protection



Surge Protection



Early Shutdown Warning System



Universal Socket



The **PRO SFT series** is a single-phase input/ single-phase output Line-Interactive UPS system with Prolink's latest Super-Fast Charging technology. It allows for the battery to be recharged back to 90% of its capacity within 2-4 hours, and is ideal for providing stable backup power to home/ small office applications.

A wide input voltage range is supported due to the integrated 3-Step AVR which features 2 boosts and 1 buck to regulate output voltage. This helps prevent under voltage brownouts and over voltage surges. The unit also comes with a LCD user interface that provides valuable information such as output voltage, input voltage, load level, battery voltage and overload warning signals.

Key Features

- Built-in super fast charger, battery can be recharged to 90% of its capacity within 2-4 hours
- Excellent microprocessor control guarantees high reliability
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Simulated sine wave
- Off-mode charging
- Cold start function
- Optional USB communication port
- Optional HID Compliant USB (for SFCU Models)

Rear Panel

650-2000VA

- 1. AC Input
- 2. Backup Outlet
- 3. USB Port (only available in SFTU models)
- 4. RJ11/ RJ45 Ports
- 5. Cooling Fan



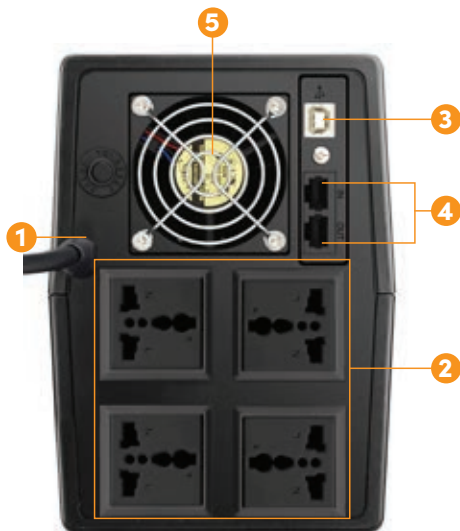
PRO700SFT/SFTU



PRO850SFTU



PRO1201SFT/SFTU



PRO1501SFT/SFTU
PRO2000SFT/SFTU

Specifications


MODEL	PRO700SFT/SFTU	PRO851SFT/SFTU	PRO1201SFT/SFTU	PRO1501SFT/SFTU	PRO2000SFT/SFTU
CAPACITY	650VA	850VA	1200VA	1500VA	2000VA
INPUT					
Nominal Voltage	230VAC				
Voltage Range	140 - 300 VAC ± 5%				
Frequency	50Hz/60Hz (Auto sensing)				
OUTPUT					
Nominal Voltage	230VAC				
Voltage Regulation (Battery Mode)	± 10%				
Frequency	50Hz/60Hz ± 1Hz				
Transfer Time (Typical)	2ms				
Waveform (Batt. Mode)	Simulated Sine Wave				
BATTERY					
Battery Type	12 V/8.2 Ah	12 V/10 Ah	12 V/8.2 Ah	12 V/10 Ah	
Numbers	1			2	
Recharge Time (Typical)	2-4 hours recover to 90% capacity			4-6 hours recover to 90% capacity	
PROTECTION					
Full Protection	Short Circuit, Overload, Discharge and Overcharge Protection				
INDICATION					
LCD Display					
ALARM					
Sounding	Battery Mode - Sounding every 10 seconds				
	Low Battery - Sounding every second				
	Overload - Sounding every 0.5 seconds				
	Battery Replacement Alarm - Sounding every 2 seconds				
	Fault - Continuously sounding				
PHYSICAL					
Dimension (mm) D x W x H	300 x 101 x 142			320 x 130 x 182	
Net Weight (kgs)	4.2	4.9	8.2	10.4	10.6
ENVIRONMENT					
Humidity	0-90 % RH @ 0- 40°C (Non-condensing)				
Noise Level	Less than 40dB				
MANAGEMENT					
USB	Support Windows® XP/Vista/2008/7/8/10, Linux and Mac				

Product specifications are subject to change without further notice.

PRO-L Series, Long Run UPS | 600VA-2000VA



PC



Work-Stations

PRO-L Series is a single-phase input / single-phase output line-interactive UPS system that provides clean and reliable back-up power for longer periods of time. It is able to provide clean electrical power and is ideal for home / small office applications. A wide input voltage range is supported due to the integrated 3-Step AVR which features 2 boosts and 1 buck to regulate output voltage. High voltage battery chargers and battery extension assembly are made available for longer runtime applications. The PRO-L Series with capacities of up to 850VA also comes with universal sockets to provide better compatibility with a wider range of devices.



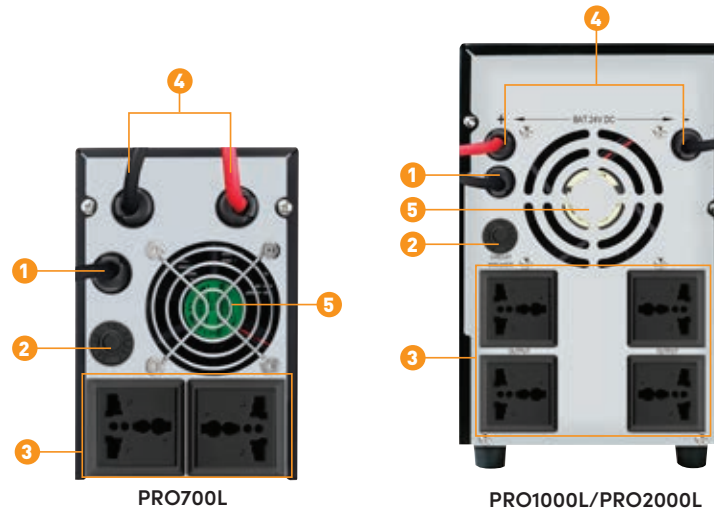
Key Features

- **Excellent microprocessor control guarantees high reliability**
- **Boost and buck AVR for voltage stabilization**
- **Adjustable battery charging current**
- **Auto restart while AC is recovering**
- **Off-mode charging**
- **Cold start function**
- **Simulated sine wave**
- **Built-in super charger supporting long backup with external battery**
- **Generator compatible (optional)**

Rear Panel

600-2000VA

1. AC input
2. Input protection
3. Output outlet
4. Battery Connection
5. Fan



Specifications

MODEL	PRO700L	PRO1000L	PRO2000L
CAPACITY	600 VA / 360 W	1000 VA / 600 W	2000 VA / 1200 W
INPUT			
Nominal Voltage		220/230 VAC	
Acceptable Voltage Range		140 - 300 VAC	
Frequency Range		50Hz	
OUTPUT			
Nominal Voltage		220/230VAC	
Voltage Regulation (Batt. Mode)		± 10%	
Frequency Range (Batt. Mode)		50 Hz ±1 Hz	
Transfer Time		Typical 4-8 ms	
Waveform (Batt. Mode)		Simulated Sine Wave	
BATTERY			
Numbers	1	2	2
Nominal DC Voltage	12 VDC		24 VDC
Floating Charging Voltage	13.7 VDC ± 2%		27.4 VDC ± 2%
Charge Current	2.5A/6A/10A (Adjustable)	5A/10A/15A/20A (Adjustable)	
PROTECTION			
Full Protection	Overload, discharge, and overcharge protection		
INDICATORS			
Line Mode	Green lighting		
Battery Mode	Yellow flashing		
Fault	Red lighting		
ALARM			
Low Battery	Sounding every second		
Overload	Sounding every 0.5 second		
Battery Replacement Alarm	Sounding every 2 seconds		
Fault	Continuously sounding		
PHYSICAL			
Dimension, D x W x H (mm)	358.5 x 96.8 x 146.5	395 x 145 x 220	
Net Weight (kgs)	5.8	9.0	13.55
ENVIRONMENT			
Humidity	0 to 90% Relative Humidity (Non-condensing)		
Noise Level	Less than 40dB		

Product specifications are subject to change without further notice.

PRO2000LD, Outdoor UPS | 2000VA



PC



Work-Stations



CCTV



Traffic Light Control System



The Prolink PRO2000LD is a single-phase input/ single-phase output Outdoor UPS system. A wide operating temperature range of -40°C to 80°C makes it ideal for outdoor usage. Designed to put up the best performance under the harshest environment, the PRO2000LD is able to supply continuous power to critical loads during a blackout or power outage.

Equipped with dry contacts, the PRO2000LD is able to program safety-oriented signals to meet the requirements of different applications. As such, users are able to monitor UPS events that are most concerned to them. The PRO2000LD comes in a capacity of 2000VA.

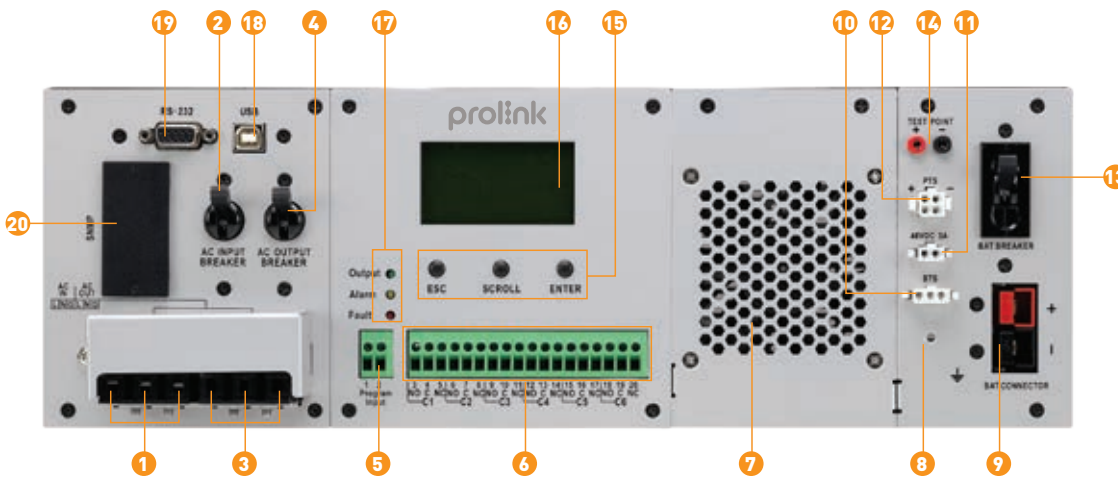
Key Features

- Provide continuous power to critical loads during blackout in rugged environment
- Wide operating temperature range from -40°C to 80°C suits for outdoor applications
- Built-in boost and buck AVR to regulate input voltage
- Selectable transfer time for normal or generator modes
- Provide RS-232, USB and SNMP intelligent port
- Circuit breaker protection on AC input, AC output and external battery input
- User-adjustable charging current
- Adjustable input threshold voltage
- Provide programmable signals for dry contacts
- Battery compensation optimizes battery lifecycle

Rear Panel

2000VA

- | | |
|--------------------------------|----------------------------------|
| 1. AC input terminal block | 11. External FAN connector |
| 2. AC input breaker | 12. PTS control connector |
| 3. AC output terminal block | 13. Battery breaker |
| 4. AC output breaker | 14. Battery voltage test points |
| 5. Input contact | 15. Function keys |
| 6. Dry contact | 16. Liquid Crystal Display (LCD) |
| 7. Internal fan | 17. Indicator LEDs |
| 8. GND | 18. USB connector |
| 9. Battery connector | 19. RS232 connector |
| 10. Battery temperature sensor | 20. Intelligent slot |



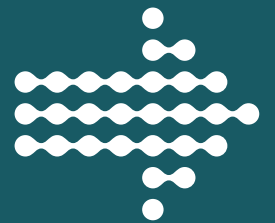
PRO2000LD

Specifications


MODEL		PRO2000LD
Rated Power		2000VA / 1600W
INPUT		
Nominal Voltage		230 VAC
Acceptable Voltage Range		170-300 VAC 88-152 VAC (AVR Function enabled only available for 120VAC system, adjustable)
Frequency Range		50 Hz/60 Hz (Auto sensing)
OUTPUT		
Nominal Voltage		230 VAC
Voltage Regulation (Batt. Mode)		230 VAC ± 5%
Output Frequency		50Hz/60Hz ± 0.1%
THD (Batt. Mode)		<3% @ Full resistive load
Efficiency	AC Mode	95%
	AVR Mode	90%
	Battery Mode	87% - 90%
Transfer Time	Normal Mode (max.)	12ms
	Generator Mode (max.)	25ms
Waveform		Pure Sine Wave
BATTERY		
Nominal DC Voltage		48VDC
Low DC Warning Voltage		46VDC ± 0.4VDC @ no load
Battery Type		AGM/Gel
Charging Current		2A/4A/6A/8A/10A (Adjustable)
INDICATORS		
Bypass Mode		Green LED on
Battery Mode		Green LED flashing
No Output		Green LED off
Warning with Output		Yellow LED on
Fault without Output		Red LED on
MANAGEMENT		
Communication		RS-232/USB and SNMP
Dry Contact Rating		3A @ 125VAC or 250VAC
PHYSICAL		
Dimension, Dx W x H (mm)		400 x 240 x 133
Net Weight (kgs)		12.5
Type of Mechanical Protection		IP20
ENVIRONMENT		
Humidity		5% to 95% Relative Humidity(Non-condensing)
Operating Temperature		-40°C to 80°C
Noise Level		< 48dB
COMPLIANCE		
EMI Compliance		Class A FCC/CISPR [EN50091-2: 1995]
Surge Protection		IEEE/ANSI C.62.41 & 2KV, L-N

Product specifications are subject to change without further notice.

INVERTER





Simulated Sine Wave Inverter Series

IPS Series 1.2KVA-2.2KVA



Prolink's IPS series is the ideal inverter system for your home or business. Provide full DC power to your connected equipment and storage during power outage, as well as protection from surges on your AC lines. With an easy-to-read LCD display, you'll always know your battery status and connected load level details, while our compact design means you can locate them anywhere in your house or office.

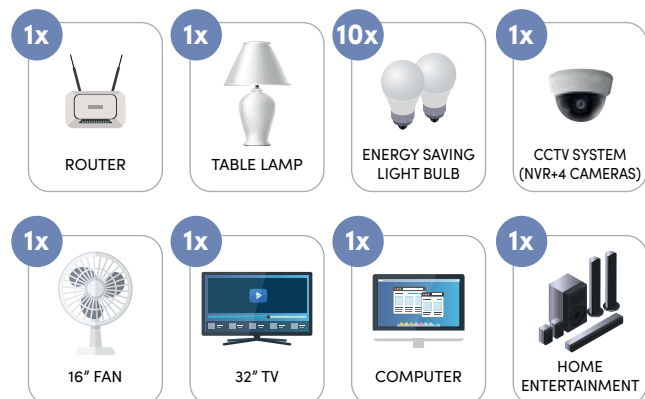
Covering a wide selection of voltages, the IPS Series is available in capacities as low as 1200VA/1000W to as high as 2200VA/1800W.

Key Features

- Selectable Voltage Range
- Advanced Protection
- LCD and/or LED panel (Refer to the specifications)
- Auto restart while AC is recovering
- Auto re-charge while AC is recovering
- Solar input with MPPT charge controller (Option)

Recommended Equipments

IPS1202



IPS2202

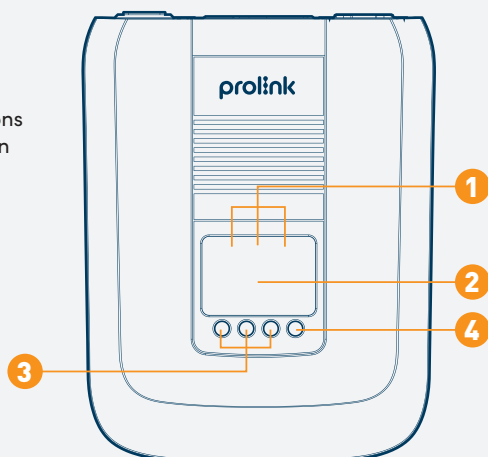


Notes:
 1) Quantity may vary depending on the product's actual power consumption.
 2) Not compatible with Water pump and Smart TV.

Overview

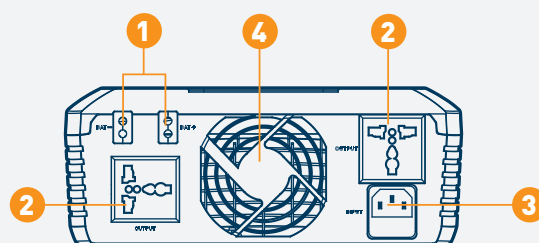
Top Panel

1. LED indicators
2. LCD
3. Setting function buttons
4. Power ON/OFF button



Rear Panel

1. External battery connectors
2. AC output receptacles
3. AC inlet
4. Cooling fan



Specifications

MODEL		IPS1202	IPS2202
Capacity		1200VA/1000W	2200VA/1800W
INPUT			
Nominal Voltage		220~240VAC	
Voltage Range		170~280Vac(for narrow range setting) 90~280Vac(for wide range setting)	
Frequency		50Hz/60Hz (Auto sensing)	
OUTPUT			
Nominal Voltage		230VAC	
Voltage Regulation (Batt. Mode)		+10%/-18%	
Frequency		50Hz/60Hz	
Output Waveform (Batt. Mode)		Simulated Sine Wave	
Transfer Time		10~20ms (Typical), 40ms (Max)	
Efficiency		>95% (AC mode), >80% (Battery mode)	
Overload Protection		>110% for 1 min >120% for 20s >150% shutdown immediately	
Protection		Short Circuit, Overload, Over-temperature, Discharge and Overcharge Protection	
BATTERY			
Charging Algorithm		3-stage charging	
AC Charging Current		10A/15A/20A(default)/25A selectable	5A/10A/15A (default)/20A selectable
Numbers		1	2
Nominal DC Voltage		12VDC	24VDC
Float Charge Voltage		13.7VDC ± 2%	27.4VDC ± 2%
Overcharge Protection		16VDC ± 2%	32VDC ± 2%
Maximum Battery Capacity		250AH	200AH
INDICATORS			
LCD Display		Input Voltage, Output Voltage, Load level, Battery level, Overload and Fault alarm	
LED Display	Line Mode 1 (charge current >3A)	Green Flashing	
	Line Mode 1 (charge current <3A)	Green Lighting	
	Off Mode Charging	Green Flashing	
	Battery Mode	Yellow Lighting	
	Fault	Red Lighting	
	Overload	Red Flashing	
ALARM			
Low Battery		Sounding every 2 seconds	
Overload Warning		Sounding every 0.5 second	
High Temperature		Sounding every 0.5 second	
Fault		Continuously sounding	
PHYSICAL			
Dimension (mm) D x W x H		309.5 x 244 x 96	
Weight		2.5kg	2.6kg
ENVIRONMENT			
Operation Humidity		0 to 90% Relative Humidity (Non-condensing)	
Operating Temperature		0°C to 50°C	
Noise Level		<50dB @ 1m	

Product specifications are subject to change without further notice.



Pure Sine Wave Inverter Series

IPS Series | 3KVA & 5KVA

- Low frequency design for higher reliability
- Pure Sine Wave Output
- Narrow/Wide Input Range Selection
- Build-in AC Charger
- Generator Compatible
- Cold Start Function
- Auto restart upon AC recovery
- RS232 Multiple Communications & Optional USB Port



Recommended Equipments

IPS3003

SCENARIO 1

- Energy Saving Light - 5 units
- 1-Door Fridge - 1 unit
- CCTV System - 1 set (NVR + 4 cameras)
- Air Cooler - 1 unit
- 60" Smart TV - 1 unit

SCENARIO 2

- 1.0 HP Aircon - 1 unit

IPS5003

SCENARIO 1

- Energy Saving Light - 5 units
- 1-Door Fridge - 1 unit
- CCTV System - 1 set (NVR + 4 cameras)
- 1.0 HP Aircon - 1 unit
- 60" Smart TV - 1 unit

SCENARIO 2

- 2.0 HP Aircon - 1 unit

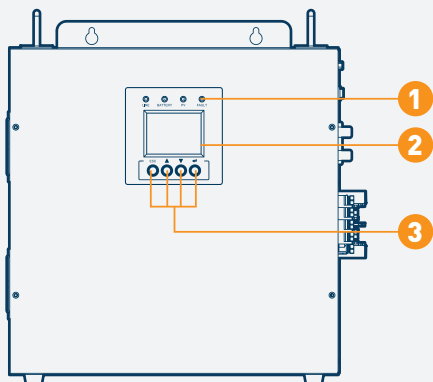
Notes :
 1) Quantity may vary depending on the product's actual power consumption.
 2) Inverter type (soft-start) air-condition/fridge is more suitable for usage.
 3) AC input, output and battery terminals connection to be done correctly.

For more information, please contact ProLink Support Team

Overview

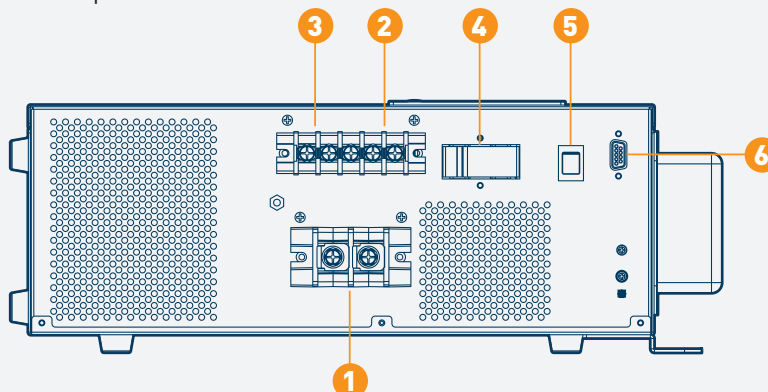
Top Panel

1. LED indicators
2. LCD
3. Setting function buttons



Rear Panel

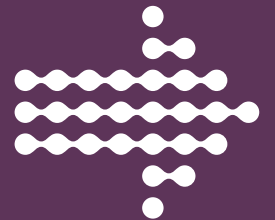
1. DC input terminals
2. AC input terminals
3. AC output terminals
4. AC input breaker
5. Power on/off button
6. RS-232 communication port



MODEL		IPS3003	IPS5003
Capacity		3000VA/2400W	5000VA/4000W
INPUT			
Nominal Voltage		220-240VAC	
Voltage Range		170 ~280VAC(narrow) 90~280VAC(wide)	
Frequency		50/60Hz(Auto sensing)	
OUTPUT			
Nominal Voltage		220-240VAC	
Frequency Range(batt.mode)		50Hz/60Hz ±1%	
Waveform (Batt.mode)		Pure Sine Wave	
Transfer Time		Narrow mode<8ms, wide mode<40ms	
Overload Capability		1min@ >110%, 0s@>120%	
Overload Protection		Circuit breaker or inner firmware protection	
Protection		Discharge, over-charged, over-load, short-circuit protection	
BATTERY			
Nominal DC Voltage		24VDC	48VDC
Float Charging Voltage		27VDC	54VDC
Charging Algorithm		3-stage charging	
Charge Current		10A/20A(default)/30A/40A	
INDICATORS			
LCD Display		Input Voltage, Output Voltage, Load level, Battery level and Fault alarm	
LCD Display	Line Mode 1 (Battery empty)	Green Flashing	
	Line Mode 1 (Battery full)	Green Lighting	
	Off Mode Charging	Green Flashing	
	Battery Mode	Yellow Lighting	
	Battery Low	Yellow Flashing	
INTERFACE			
RS232		Yes	
MANAGEMENT			
Auto Recharge		Yes	
Auto Restart		Yes	
Power Management Software		Yes	
PHYSICAL			
Dimension(W x H x D)(mm)		385 x 382 x 148	
Net Weight (kg)		29	32
ENVIRONMENT			
Humidity		0-90 % non-condensing	
Operating Temperature		0-50°C	
Noise Level		<55dB @ 1 Meter	

Product specifications are subject to change without further notice.

AUTO VOLTAGE REGULATOR





Auto Voltage Regulator

PVR Series | 500VA~3KVA

Prolink PVR Series is designed to automatically maintain a constant voltage level to protect sensitive electronics from brownouts, under voltages and over voltages. The Prolink PVR takes efficiency to a new level with its microprocessor controller tailored to allow extremely fast response for detecting and regulating voltage. Equipped with a time-delay function, the PVR is able to protect connected devices from power-back surges. This high performance AVR comes with the versatility to fit all kinds of equipment with its wide input voltage range selection. The Prolink PVR provides you with the optimum solution for your everyday needs.



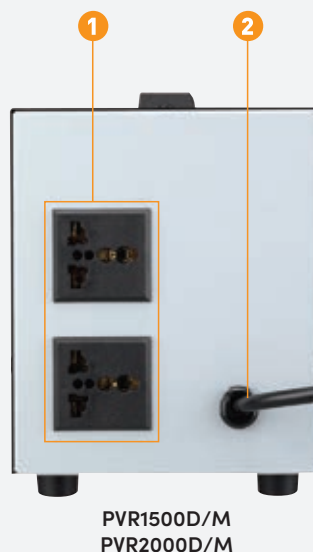
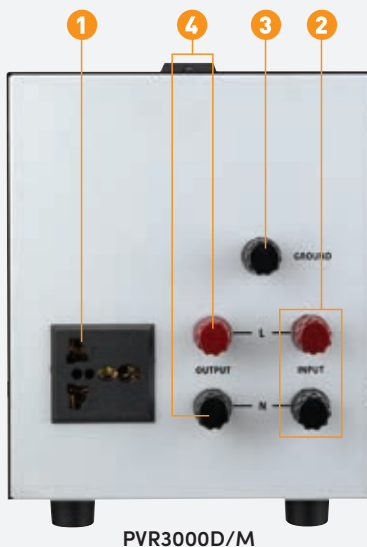
Key Features

- Microprocessor control guarantees high reliability
- Selectable input voltage range
- Time delay function eliminates transients that can affect connected equipment
- Provide stable output voltage
- Provide under-voltage, over-voltage, over-heat and over current protection
- Provide surge and spike suppression

Rear Panel

500VA-3KVA

1. Output sockets
2. AC input terminal
3. Grounding (black)
4. AC output terminal



Specifications



MODEL	PVR500D/M	PVR1000D/M	PVR1500D/M	PVR2000D/M	PVR3000D/M
CAPACITY	500 VA / 400 W	1000 VA / 800 W	1500 VA / 1200 W	2000 VA / 1600 W	3000 VA / 2400 W
INPUT					
Voltage	220 VAC or 230 VAC				
Voltage Range	110 VAC - 270 VAC or 110 VAC - 280 VAC (Wide input window) 140 VAC - 260 VAC or 150 VAC - 270 VAC (Normal input window)				
Frequency Range	60 Hz / 50 Hz				
OUTPUT					
Voltage	220 VAC or 230 VAC				
Voltage Regulation	±10%				
EFFICIENCY					
Normal Mode	95%				
AVR Mode	92%				
PROTECTION					
Delay Time	3 minutes or 10 Seconds				
Full Protection	Over-voltage, under-voltage, over-heat and over current Protection				
INDICATORS					
LED Indicator	Normal indicator, AVR indicator, delay time setting and fault indicator				
Digital or Meter Display	Input and output voltage				
Surge Energy Rating (Joules)	312J				
PHYSICAL					
Dimension, D X W X H (mm)	197 x 110 x 124		234 x 134 x 181		297 x 150 x 199
Net Weight (kgs)	2.4	3.91	5.4	6.55	8.56
ENVIRONMENT					
Operating Temperature	0- 40°C				
Humidity	0-90 % relative humidity (Non-condensing)				

* Efficiency rate will be different based on different models and input voltage range
 Product specifications are subject to change without further notice.
 D - LCD Display; M - Analog Display



Prolink PVS Voltage Stabilizer

PVS Series | 1KVA~10KVA

Prolink **PVS series voltage stabilizer** consists of voltage regulator, sampling control circuit and servo motor to provide more stabilized output to the connected loads. It has excellent features such as small waveform distortion, faster response time and higher durability for different types of applications.



Key Features

- Servo motor controlled design provides more stabilized output
- Dual output (110VAC/230VAC) for 1kVA
- Dual output (220VAC/230VAC) for 2kVA and above models
- Faster response time against input voltage variation
- Stepless voltage correction
- High reliability
- Provide under-voltage, over-voltage, over-heat and over current protection
- Provide surge and spike suppression

Front Panel

1KVA - 10KVA

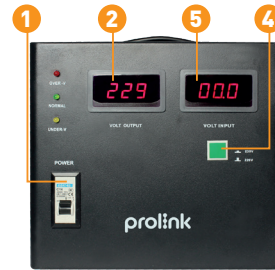
- 1) On/Off switch
- 2) Output voltage display
- 3) Input Fuse
- 4) Push button switch for output voltage (110/220V for 1kVA and 220/230V for 2~10kVA)
- 5) Input voltage display



PVS1001AD



PVS2001CD/CM



PVS3001CD/CM



PVS5001CD/CM

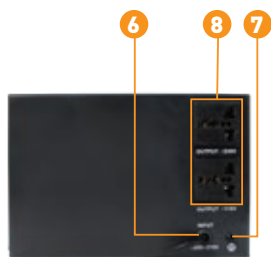


PVS7501CD/CM
PVS10001CD/CM

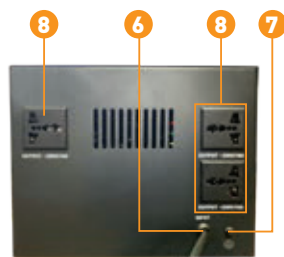
Rear Panel

1KVA - 10KVA

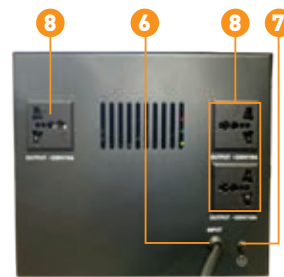
- 6) AC Input cable/ terminal
- 7) Grounding terminal
- 8) AC output sockets/ terminals
- 9) Cooling Fan



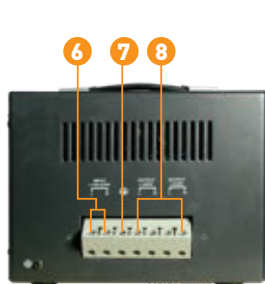
PVS1001AD



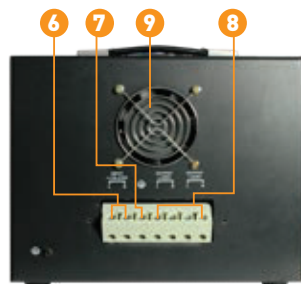
PVS2001CD/CM



PVS3001CD/CM



PVS5001CD/CM



PVS7501CD/CM
PVS10001CD/CM

Specifications



PVS1001AD



PVS2001CD/CM
PVS3001CD/CM



PVS5001CD/CM



PVS7501CD/CM



PVS10001CD/CM

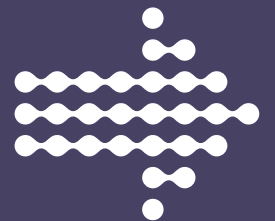
MODEL	PVS1001AD	PVS2001CD/CM	PVS3001CD/CM	PVS5001CD/CM	PVS7501CD/CM	PVS10001CD/CM
Capacity	1000VA/800W	2000VA/1600W	3000VA/2400W	5000VA/4000W	7500VA/5600W	10000VA/8000W
INPUT						
Nominal Voltage	230VAC single phase					
Voltage Range	130~270VAC					
Frequency	50Hz / 60Hz					
OUTPUT						
Nominal Voltage	110VAC or 230VAC single phase +/- 1~3%	220VAC or 230VAC single phase +/- 1~3%				
Frequency	50Hz / 60Hz					
EFFICIENCY						
Overall Efficiency	>90%					
INPUT PROTECTION						
Delay Time	3s					
Full protection	Over-voltage, Under-voltage, Over-temp, Over-current protection					
OTHERS						
Response Time	< 1 sec (against 10% input voltage variation)					
Insulation Resistance	> 5MΩ					
PHYSICAL						
Dimension (LxWxH) mm	260 x 240 x 175	310 x 240 x 205	315 x 230 x 240	476 x242 x208	503 x277 x243	
Weight (kg)	3.45	8.8	14	18.45	22	29.6
ENVIRONMENT						
Operating Temperature	-10~40 °C					
Humidity	0~90 % RH (non-condensing)					
Noise Level	<50dB @1m				<55dB @1m	

D- Digital Display; M- Analog Display

A- Aluminum winding; C- Copper winding

*Efficiency rate will be different based on different models and input voltage range
Product specifications are subject to change without further notice.

DC
UNINTERRUPTIBLE
POWER SUPPLY





Rechargeable Power Adapter

PDC12V

The Prolink PDC12V Rechargeable Power Adapter is designed to provide power backup for small electrical appliances. It comes with a universal voltage of 90 - 264 VAC, which is able to power up most electronic devices such as networking products, IP cameras and security systems.

The product also with built-in high quality components that ensures optimal performance and safety protection such as over-discharge, over-charge, short-circuit and overload.

PDC12V is small and light-weight, which suits users who are looking for a portable power backup solution for their devices.



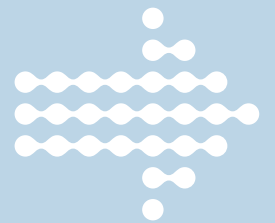
- Built-in Li-ion battery
- Microprocessor controller guarantees high reliability
- Auto start when plugged in
- Manual power off switch
- Multi-color indicator
- Overload, short-circuit, over-charge and over-discharge protection

Specifications

MODEL		PDC12V
AC INPUT		
Voltage Range	90 VAC ~ 264 VAC	
Frequency	50 or 60 Hz	
Surge protection	1.5KV (Optional K.21 enhanced, 6KV)	
DC OUTPUT		
Voltage	12VDC \pm 5%	
Max. Power	25W (2.1A)	
BATTERY		
Type	Lithium-ion Battery	
Voltage	3.7VDC	
Capacity	2600mAh	
Typical Charging Time	3 hours recover to 90% capacity	
PROTECTION		
Battery	Deep Discharge, Over-charge and Short Circuit Protection	
Input/Output	Fuse for Short Circuit and Overload Protection	
INDICATORS		
LED	Full Battery	Green lighting
	Battery Charging	Constant flashing on Green LED
	Battery Discharging	Quick flashing on Green LED
	Fault	Red lighting
PHYSICAL		
Input Plug	Mounted on the housing (NEMA/EU/UK)	
Output Cable	1m Length (DC Male Jack, OD 4mm, ID 1.7mm)	
Dimension, D x W x H (mm)	68 x 42 x 74	
Net Weight (g)	280	

Product specifications are subject to change without further notice.

SOFTWARE & ACCESSORIES



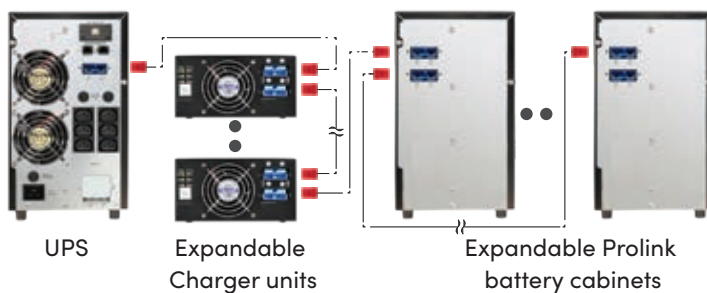
External Battery Charger (PEC Series)

Prolink External Charger (PEC) is an additional external smart charger for Prolink Online UPS system. It designed with isolation structure and operated in parallel with several units for charging capability expandable.

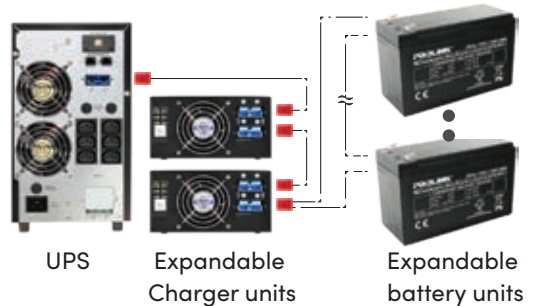
- Input PFC control
- Back feed protection
- Three-stage smart charging
- Short circuit and over voltage protection
- Maximum current restriction
- Redundancy operation



With Prolink External Battery Cabinet



With External Battery Bank



Rear Panel

MODEL	PEC20-24	PEC15-36	PEC15-48	PEC12-72	PEC10-96	PEC4-240	PEC 24-240-A
INPUT							
Nominal Voltage	230VAC						
Voltage Range	170~280VAC						110~300VAC
Nominal Frequency	50/60Hz						
Input Current (max) @ full load	8A						60A
OUTPUT							
Nominal Voltage	24VDC	36VDC	48VDC	72VDC	96VDC	192~240VDC	192~240VDC
Output Current (max)	20A	15A		12A	10A	4A	24A
Floating Charging Voltage	27.3VADC	41.1VDC	54.8VDC	82.2VDC	109.6VDC	218.8~273.6VDC	218.8~273.6VDC
EFFICIENCY							
AC Mode	Up to 85%						
PROTECTION							
Full Protection	Over-voltage, Thermal control, Over current, Short circuit, Reversal polarity						
INDICATION							
LED Display	Charger ON – Green LED						N/A
	Boost Charging Status – Yellow LED						
	Floating Charging Status – Green LED						
	Low Charging Voltage – Red LED						
PHYSICAL							
Dimension (mm) D x W x H	300 x 177 x 90					300 x 165 x 95	570 x 250 x 215
Net Weight (kgs)	3.1					3.6	14
ENVIRONMENT							
Relative Humidity	<95% (Non-condensing)						
Operation Temperature	0 ~ 40°C						
Noise Level	<50dB						
IP Class	IP20						

Product specifications are subject to change without further notice.

Automatic Transfer Switch (ATS)


Prolink **Automatic Transfer Switch (ATS)** is designed to allow two independent power inputs to supply power to the connected load. In the event where the primary power source fails, the ATS automatically transfers the backup connection to the secondary power source without any interruption, providing seamless electrical power and the highest protection for your equipment. The Prolink ATS is also designed to automatically transfer the connection back to the primary power source once it has detected restored power.

- **Powered by two separate independent power sources**
- **Dual power supply for redundancy**
- **Provides seamless power switch for IT equipment**
- **Preferred source selection on front panel**
- **19" rack-mount design (1U)**
- **Built-in USB and RS-232 interface**
- **Built-in intelligent slot for SNMP or Modbus**

Specifications

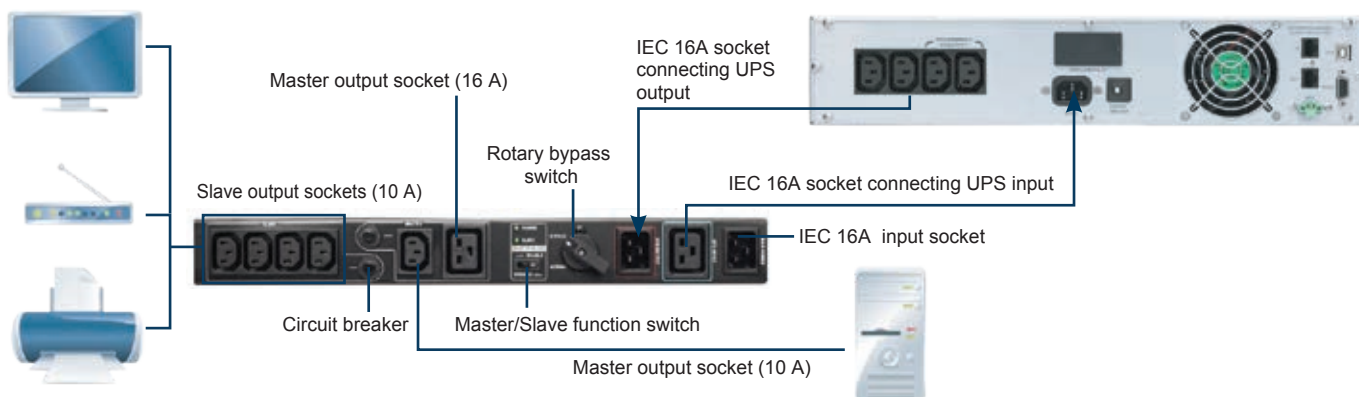
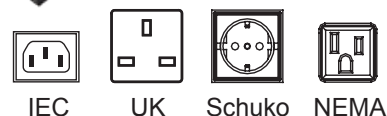
MODEL	ATS16-R	ATS-30R
INPUT		
Input Voltage	220/230/240 VAC	
Acceptable Input Voltage	180 ~ 258VAC	
Input Frequency	50Hz/ 60Hz	
Maximum Input Current	16A	30A
OUTPUT		
Output Voltage	220/230/240 VAC	
Maximum Output Current	10A for IEC-C13 Outlets 16A for IEC-C19 Outlet	10A for IEC-C13 Outlets 16A for IEC-C19 Outlet 30A for Gland connector
CONNECTION		
Input	2 x IEC-C20 Inlets	2 x Gland connectors
Output	8xIEC-C13 1xIEC-C19	4xIEC-C13 1xIEC-C19 1x Grand
Communication	USB/ RS-232	USB/ RS-232
Transfer Time	9 ~ 12ms (Typical)	6 ~ 8ms (Typical)
PHYSICAL		
Dimension (mm) D x W x H	330 x 430 x 44	
Net Weight (kgs)	5	
ENVIRONMENT		
Operation Temperature	0 ~ 95% RH @ -5°C ~ 45°C (Non-condensing)	

Product specifications are subject to change without further notice.

PDU & Maintenance Bypass Switch

The PDU & Maintenance Bypass Switch is an external power distribution unit used in conjunction with UPS systems or large-scale voltage regulators. This device enables the UPS to be isolated for scheduled maintenance or replacement without interrupting the power to the load.

- Master-slave function for energy saving
- Choose between a rack or tower design to fit into any working environment
- Simple installation with plug-and-play socket type
- Suitable for all UPSs up to 3kVA



Specifications

MODEL	MBS16-R (I/U/S/N) (*)		MBS16-T (I/U/S/N) (*)	
Current Rating	16A			
Voltage Rating	208/ 220/ 230/ 240/VAC			
Master/ Slave Function	Yes. When power consumption in Master Outlet is lower Master/ Slave Function than 20W (±5W), it will shut off the power for slave outlets.		NA	
CONNECTION				
Input	AC Power	1 x IEC (16A) Connector & 1 x Customized Plug Cable		
	UPS Input	1 x IEC (16A) Connector & 1 x Cable (16A ~ 10A IEC Cable for 1k/ 2k, 16A ~ 16A IEC cable for 3k)		
	UPS Output			
Output	IEC	5 x IEC 10A Socket + 1 x IEC 16A Socket (with 2 circuit breakers)	8 x IEC 10A Socket + 1 x IEC 16A Socket (with 2 circuit breakers)	
	Schuko	4 x Schuko 16A Sockets		
	UK	4 x UK 13A Sockets		
	NEMA	5 x NEMA 20A Sockets	8 x NEMA 20A Sockets	
PHYSICAL				
Dimension (mm) D x W x H	IEC	80 x 438 x 50	180 x 160 x 50	
	Schuko	80 x 438 x 60	180 x 200 x 50	
	UK			
	NEMA	80 x 438 x 50	180 x 160 x 50	
Net Weight (kgs)	1.50		1.30	
ENVIRONMENT				
Operation Temperature	20 ~ 95% Relative Humidity @ -0°C ~ 40°C (Non-condensing)			

Product specifications are subject to change without further notice.

Maintenance Bypass Switch

- 100% make before break to provide continuous power to connected equipment during UPS maintenance
- Automatic UPS-protection design - Auto transfer UPS to bypass when opening the maintenance bypass switch door
- Easy operation with simple rotary switch
- Terminal block type
- Suitable for 6K/10K VA rack type UPS Models



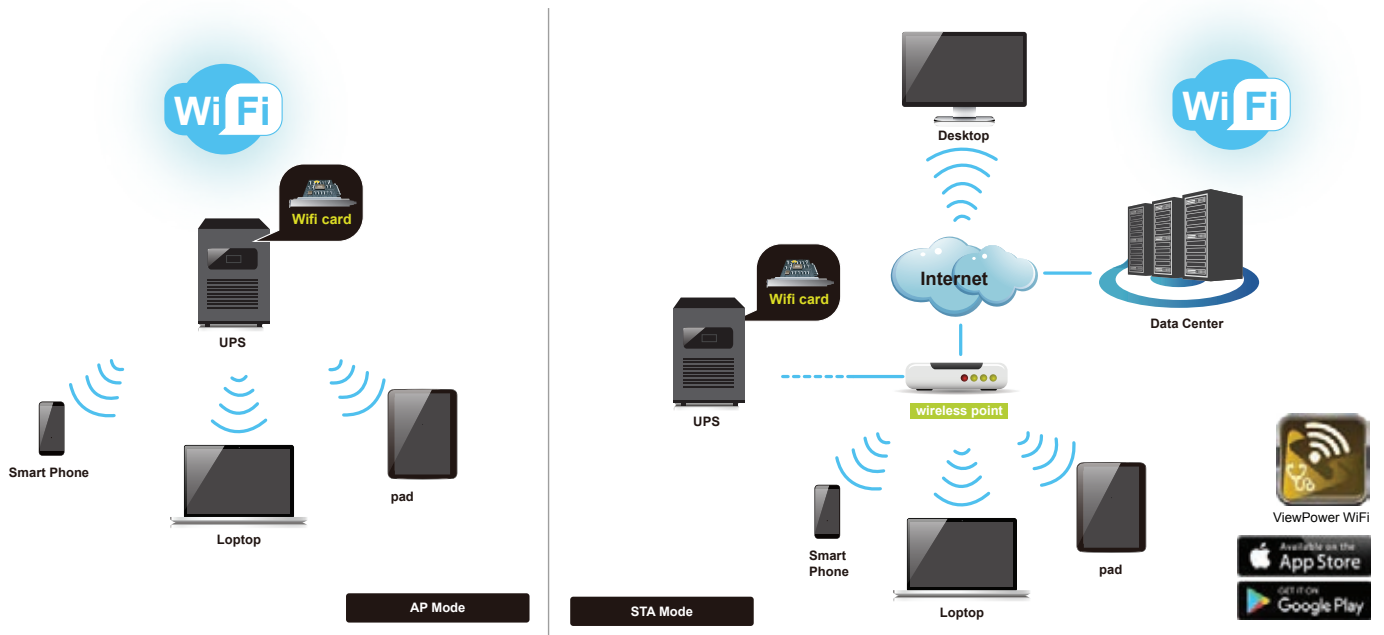
Specifications

MODEL	MBS63-R
Current Rating	63 A / pole
Working Voltage	600 VAC
Frequency	50 Hz or 60 Hz
Isulation Voltage	690 VAC
Protection	Overload
CONNECTION	
Input	Terminal Type (L-N)
Output	Terminal Type (L-N)
Recommended Wires	10 AWG for 6KVA UPS 8 AWG for 10KVA UPS
Form Factor	2U
PHYSICAL	
Dimension, D X W X H (mm)	158 x 438 x 86
Net Weight (kgs)	3
ENVIRONMENT	
Operating Temperature	0-95 % RH @ 0- 40°C (non-condensing)

Product specifications are subject to change without further notice.

Wi-fi Smart Card

- Real-time dynamic graphs of UPS data
- Cloud storage for history data and event log
- Remote monitoring and control of multiple UPSs via mobile APP (iOS and Android)
- Parameter settings available via mobile APP (iOS and Android)



Wi-Fi Smart Card Specification

MODEL	Wi-Fi Smart Card
Wifi Communication Protocol	802.11 b/g/n
Hardware Encryption	WEP, WPA/WPA2
Wifi Operation Frequency	2.4G
Wifi Wireless Gain	2.5dBi
Wifi Communication Distance	100 meters (open environment)
Maximum transmit rate of Wifi	72Mbps
Maximum Transmit Power of Wifi	18.5dbm (70mW)
Software WatchDog	Yes
Local Communication Interface	Golden Finger
Network Layer Communication Protocol	Modbus-TCP
Working Mode	AP/STA
Parameter Setting Way	Mobile APP
Power Input	12V
Power Consumption	2 watt (max.)
Operating Temperature	-20°C ~ 75°C
Operating Humidity	0 ~ 95%
Storage Temperature	-30°C to 80°C
Dimension, D x W x H (mm)	23 x 47 x 15

Product specifications are subject to change without further notice.

Environmental Monitoring Device (EMD)

The Environmental Monitoring Device (EMD) is used to remotely monitor temperature and humidity via SNMP manager. It also provides two dry contacts to receive signals from devices such as security and alarm system.

- Plug and Play for simple installation with SNMP Manager
- Monitor temperature and humidity to protect the environment
- Allow two dry contact signals
- Management software to remotely monitor temperature and humidity



Specification

MODEL	EMD
Nominal DC Input	12VDC
DC Input Current	0.5A
Temperature Measurement Range	0~100 °C
Temperature Measurement Accuracy	±1.5 °C
Humidity Measurement Range	10%~90%RH
Humidity Measurement Accuracy	±3%
Communication	RS232 with ASCII Protocol
Acceptable Maximum Cable Length	15m
Dimension (D x W x H) mm	80 x 78 x 28.5
Net Weight	68g

Product specifications are subject to change without further notice.

SNMP Web Pro Card

Integrated with our latest ViewPower software, the SNMP manager operates as an enhanced communication solution for your UPS system. It allows you to remotely manage and monitor your UPS system via internet connectivity. Once connected to the internet, the ViewPower software provides you access to remotely program or even shut down your UPS system.

- **Allows control and monitoring of multiple UPSs through RJ-45 network connection**
- **Real-time dynamic graphs reflecting UPS data (Voltage, frequency, load level and battery level)**
- **Warning notifications via audible alarm, broadcast, mobile messenger, e-mail and SNMP traps**
- **Historical data logging**
- **One click easy firmware upgrade**
- **Password security protection and remote access management**
- **Supports optional environmental monitoring detector for temperature, humidity and smoke**



Modbus Card

The ModBus Card provides UPS and PV inverter systems with the functionality to communicate with PCs through the ModBus Protocol.

- **Adopts ModBus RTU Protocol**
- **Comes with functions that includes read Holding Registers and write Registers**
- **RS232 and RS485 interface**



AS-400 Card

The AS-400 communication card is designed with a high quality contact closure board that accurately converts UPS signals into dry contacts for users to monitor UPS events that are most concerned to them. By setting the jumper, the AS-400 communication card allows you to select various status indicators such as; UPS alarm, UPS failure, Bypass, Low Battery etc.

- **Capable of selecting the status of the dry-contact signal by setting the jumper to meet different application requirements**
- **Suitable applications include; IBM Server, Personal PC & Workstations equipments, Auto-controlled industrial equipment & communication applications**



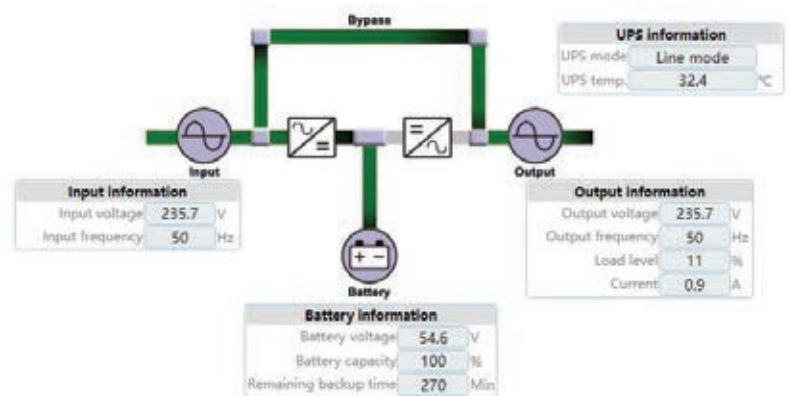
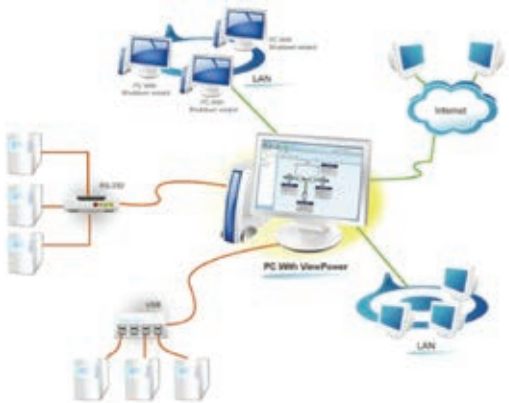
Rack Mount Slider

The Prolink Rack-mount slider kit offers you the best solution to install a Prolink UPS system into a 19" server rack enclosure. This kit comes with a pair of heavy duty sliders that are attached with quality assured ball bearings to ensure that your server can slide effortlessly into and out of the rack. Furthermore, the Prolink Rack-mount slider kit includes a superior quality front and rear mounting brackets to withstand the weight of your UPS.

- **Simple and easy installation**
- **Suitable for Prolink Rack Mount Online UPS system**
- **Slider length available in 700mm, 900mm and 1100mm to suit different types of cabinet**



ViewPower UPS Management Software



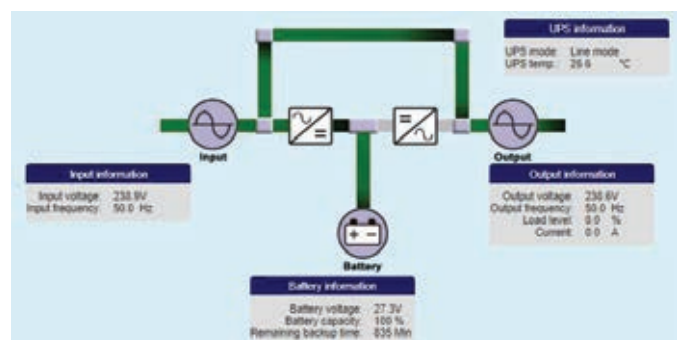
ViewPower is an advanced UPS management software that is designed for users to remotely monitor and manage multiple UPS units physically connected with PC in a networked environment, either by LAN or INTERNET. Better yet, this software could perform scheduled a UPS shutdown when necessary with Shutdown Wizard which is a highly specialized and designed tool to perform shutdown task.

- **Compatible with USB and RS232.**
- **Allows control and monitoring of multiple UPSs physically connected via LAN and INTERNET**
- **User-friendly power analysis graphs**
- **Real-time dynamic graphs of UPS data**
- **Ability to change UPS setting and store working data**
- **Safety OS shutdown to prevent data losses during power failure**
- **Warning notifications via audible alarm, broadcast, mobile messenger, and e-mail**
- **Scheduled UPS on/off, battery test, programmable outlet control, and audible alarm control**
- **Password security protection and remote access management**
- **Supports multiple OS and local languages**

ViewPower Pro UPS Management Software

Integrated with SNMP card, ViewPower Pro is a UPS management software to monitor and manage from one to multiple UPSs in a networked environment, either LAN, INTERNET, and serial connection. It's also compatible with Shutdown Wizard which is a highly specialized and designed tool to perform shutdown task.

- **Compatible with SNMP and Modbus cards.**
- **Allows control and monitoring of multiple UPSs connected via LAN and INTERNET**
- **List view monitoring**
- **Centralized control and monitor up to 1000 UPSs in LAN, Internet, or serial networks.**
- **Allows simple remote monitoring via web browser.**
- **Ability to change UPS setting and store working data**
- **Offers quick overview for multiple-UPS monitoring in Text and Graphic view**
- **Offers user-customized background picture for graphic view with simple drag and drop.**
- **Scheduled UPS on/off battery test, and scheduled wake on LAN programs.**
- **Supports multiple OS and languages**





Battery Cabinet

TOWER TYPE

MODEL	Battery Quantity						Weight(Kgs)	Cabinet Dimension (CM)		
	12AH	17AH	26AH	40AH	65AH	100AH	N.W	Length	Width	Height
X1/C1	4	5	2	2	1	1	3.8	43.5	21	29
X2/C2	8	10	4	4	2	2	5.8	45	47	32
X3/C3	12	14	6	6	3	3	8	58.5	43	32
X4/C4	16	20	8	8	4	4	18.5	45	47	61.5
X6/C6	20	24	12	12	6	6	21	58.5	47	61.5
X8/C8	28	36	16	16	8	8	23	78	47	61.5
X10/C10	36	44	20	20	10	10	26	95	47	61.5
X12/C12	42	54	24	24	12	12	31	78	47	90
X16/C16	56	72	32	32	16	16	42	78	49	119
X20C20	-	-	40	40	20	20	53.5	95	47	119
X32/C32	-	-	62	62	32	-	66.5	78	88	119
X32/C32	-	-	-	-	-	32	66.5	78	88	147.5

Product specifications are subject to change without further notice.

RACK TYPE

MODEL	Battery Quantity			Weight(Kgs) (Without Battery)	Cabinet Dimension (CM)		
	7AH	9AH	10AH	N.W	Length	Width	Height
G4R	4	4	4	6.1	38	43.8	8.8
G6R	6	6	6	9.1	48	43.8	8.8
G8R	8	8	8	9.1	48	43.8	8.8
G12R	12	12	12	11.3	60	43.8	8.8
G16R	16	16	16	12.5	60	43.8	13.3
G20R	20	20	20	12.5	60	43.8	13.3

Product specifications are subject to change without further notice.



19" Rack Type Cabinets

X Series / C Series Cabinets



GT Series Battery Cabinet



Rear Panel



GT4-24V



GT6-36V



GT8-48V



GT12-72V

Specifications

MODEL	GT4-24V		GT6-36V		GT8-48V		GT12-72V	
Battery Type	12V/7AH	12V/9AH	12V/7AH	12V/9AH	12V/7AH	12V/9AH	12V/7AH	12V/9AH
Battery Configuration (max)	2 blocks in series x 2 strings		3 blocks in series x 2 strings		4 blocks in series x 2 strings		6 blocks in series x 2 strings	
Battery Voltage	24VDC		36VDC		48VDC		72VDC	
Applicable UPS Model	PRO901-WL		PRO801-EL PRO901-EL PRO801-QS		PRO902-WL		PRO802-EL, PRO902-EL PRO802-QS, PRO803-EL PRO903-EL, PRO803-QS	
External Battery Connector	SA50,WHITE		SA50,RED		SA50,GREY		SA50,BLUE	
Casing Dimension (mm)	397(L)*145(W)*220(H)						421(L)*190(W)*318(H)	
Net Weight (kg) with Batteries	13.5	15.1	17.7	20.1	21.9	25.1	38	42.8
Net Weight (kg) W/O Batteries	5.1		5.1		5.1		12.8	



Cable Size Recommendation

1P-1P

Series Name	Model Number	Cable Specs (AWG)			
		Input	Output	Battery	Ground
PRO 900-ES/EL PRO 900-ERS/ERL	PRO 906-ES/ERS	10	12	-	12
	PRO 906-EL/ERL	10	12	12	12
	PRO 910-ES/ERS	8	8	-	8
	PRO 910-EL/ERL	8	8	8	8
PRO 800-QS/QL PRO 800-QRS/QRL	PRO 806-QS/QRS	10	10	-	10
	PRO 806-QL/QRL	10	10	10	10
	PRO 810-QS/QRS	8	8	-	8
	PRO 810-QL/QRL	8	8	8	8

Product specifications are subject to change without further notice.

3P-1P

Series Name	Model Number	Cable Specs (AWG)			
		Input	Output	Battery	Ground
PRO 83100-ES/EL PRO 83100-ERS/ERL	PRO 83110-ES/ERS	8	8	-	8
	PRO 83110-EL/ERL	8	8	8	8
	PRO 83115-ES/ERS	6	6	-	6
	PRO 83115-EL/ERL	6	6	6	6
	PRO 83120-ES/ERS	6	6	-	6
	PRO 83120-EL/ERL	6	6	6	6
	PRO 83130-ES	4	4	-	4
	PRO 83130-EL	4	4	4	4

Product specifications are subject to change without further notice.

3P-3P

Series Name	Model Number	Cable Specs (AWG)			
		Input	Output	Battery	Ground
PRO 83300-ES/EL PRO 83300-ERS/ERL	PRO 83310-ES/ERS	8	8	-	8
	PRO 83310-EL/ERL	8	8	8	8
	PRO 83315-ES/ERS	6	6	-	6
	PRO 83315-EL/ERL	6	6	6	6
	PRO 83320-ES/ERS	6	6	-	6
	PRO 83320-EL/ERL	6	6	6	6
	PRO 83330-ES	4	4	-	4
	PRO 83330-EL	4	4	4	4

Note: Recommended cable sizes are minimum requirement and actual selection subject to actual cable specs and cable running distance.

Product specifications are subject to change without further notice.



Recommended Space Allowance for UPS Installation

UPS Model/Series	Recommended Space Allowance (CM)			
	Front	Sides	Rear	Top
Professional II & II+ (1P/1P) 1~3KVA	30	30	30	30
Professional II & II+ (1P/1P) 6/10kVA	80	30	50	30
Master II (1P/1P) 1~3kVA	30	30	30	30
Master II (1P/1P) 6/10kVA	80	30	50	30
Master II (3P/3P)	80	30	80	50
Master II+ (3P/1P) Master II+ (3P/3P)	80	30	80	50
Master III (3P/3P)	120	30	80	50
Giant (1P/1P)	80	30	80	50
Giant I (3P/1P) Giant I (3P/3P)	80	50	80	100
Giant II (3P/3P)	80	50	80	100
Giant Industrial (3P/1P) Giant Industrial (3P/3P)	120	30	50	100
Giant Industrial II	120	30	50	100
Titan/Titan Plus (3P/3P)	120	30	80	50

1) Suggested space allowance is for UPS operation with optimum performance.

2) UPS installation and operation area shall be properly ventilated, dry and no condensation.

3) UPS shall not be installed under direct sunlight and rain.

4) UPS installation is for indoor only and shall not be installed at outside opened space.



Connect your life.

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Closed on Saturdays, Sundays
& Public Holidays