

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

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







Local Area Network (LAN)

Servers

Emergency Aları 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 (IGBT) 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.

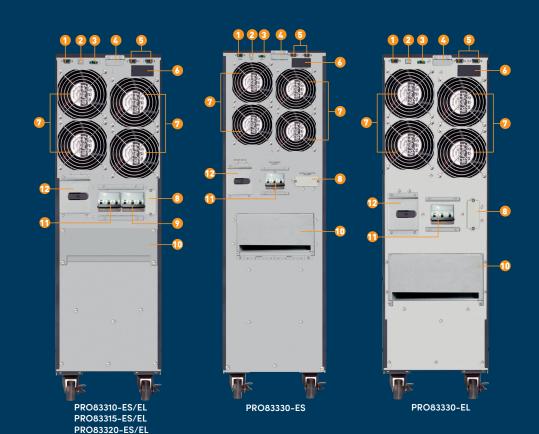
Key Features

- 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)
- Intelligent slot (RJ11/ RJ45 /SNMP Card/ EMD / AS400)
- 7. Cooling fan
- 8. External battery connector (Only available for long-run model)
- Bypass Input Circuit Breaker (Only available for dual input unit)
- 10. Input/Output terminal
- 11. Line Input circuit breaker
- 12. Maintenance bypass switch





Specifications

PAMSE	MODEL		PRO83310-ES/EL	PRO83315-ES/EL	PRO83320-ES/EL	PRO83330-ES/EL
Name				3-phase in a	/ 3-phase out	
Minimal Voltage	CAPACITY		10000 VA / 9000 W	· · · · · · · · · · · · · · · · · · ·		30000 VA / 27000 W
Naminal Voltage 3 x 400 WAC (39h-14)						
Input Voltage Range 190-500 MAC 45% (3-phose) of 100% load 100×45% (A±5% (3-phose) of 100×45% (A±5% (3-phose) of 100% load 100×45% (A±5% (3-phose) of 100×45% (A±5% (3-phos		oltage	3 x 400 VAC (3Ph+N)			
Featurery Ronge	-					
Display						
Output Voltage 3 x 380VAC/400VAC/415VAC (3Ph+N)						
Supply Notings 3 x 380VAC/400VAC/415VAC (3Ph-N)			≤ 0.39 @ 100% Load			
AC Voltage Regulation (Bart, Mode) Frequency Range (Sprichronized Range) Frequency Range (Sprichronized Range) Frequency Range (Bart, Mode) Current Crest Ratio 31 (max.) Harmonic Distortion 52 % THD (Linear Load) ≥ 4 % THD (Non-linear Load) Frequency Range (Bart, Mode) Current Crest Ratio 31 (max.) Harmonic Distortion 52 % THD (Linear Load) ≥ 4 % THD (Non-linear Load) Transfer AC Mode to Bart. Mode Transfer Frequency Ratif. Mode) Over load Frequency Ratif.				2 222/4 5 / (22//	C (45) (A C (OD) A D)	
Fequency Range (Synchronized Range)						
Frequency Ronge (Bort. Mode)						
Current Crest Rafic 3.1 (max Marmonic Distortion ≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)						
Harmonic Distortion	Frequency Range (Batt. Mode)			50 Hz ± 0.1 Hz	or 60 Hz ± 0.1 Hz	
AC Mode to Batt. Mode Zero	Current Cr	rest Ratio	3:1 (max.)			
Inverter to Bypass	Harmonic	Distortion	\leq 2 % THD (Linear Load) ; \leq 4 % THD (Non-linear Load)			
Noverform (Earth. Mode)	Transfer	AC Mode to Batt. Mode	Zero			
Coverload			Zero			
AC Mode	Waveform	(Batt. Mode)	Pure Sinewave			
Battery Node	Over load		100~110% for 10 min, 110~130% for 1 min, >130% for 1s			
AC Mode	EFFICIENC					
Battery Made			90.5%	91.5%	91.5%	92.1%
Battery Mode	ECO Mode	9				
Battery Type Numbers 20 pcs (18 - 20 adjustable)* 20 pcs (18 - 20 adjustable)* x 2 strings 20 pcs (18 - 20 adjustable)* x 3 strings 20 pcs (18 -	Battery Ma	ode	87%			89%
Standard Mode Stan			37 /A	30%	30%	0378
Numbers 20 pcs (18 - 20 adjustable)* 20 pcs (18 - 20 adjustable)* x 3 strings 20 pcs (18 - 20 adjustable)* x 24 ad		Patton, Type	101//041			
Standard Model Charging Current (max.) 1A 2A 2A 2A 4A	+	, ,,	20 per (18 20 adjustable)*			20 no. (19, 20 adjustable) * v 2 string
Charging Current (max.) 1A	Standard		20 pcs (16 - 20 dajustable)		<u>-</u>	zopcs (16-20 adjustable) x 3 string
Charging Voltage Battery Type Depending on the capacity of external batteries Numbers Numbers Nambers	Model				1	
Battery Type Numbers Charging Current (max.) A4A A4A A4A A4A A4A A4A A4A A4A A4A A4	t		1A			4A
Depending on the capacity of external batteries				273 V	DC ± 1%	
Long-run Numbers Charging Current (max.) 4A	+	, ,,	Depending on the capacity of external batteries			
Charging Voltage Charging Voltage 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 Overload Sounding twice every second Continously sounding PHYSICAL Standard Model Net Weight (kgs) Dimension, D x W x H (mm) S15 x 250 x 826 S15						
INDICATORS LCD Display	Model	Charging Current (max.)	4A	4A	4A	12A
LCD Display		Charging Voltage	273 VDC ± 1%			
Battery Mode Sounding every 4 seconds	INDICATOR	RS				
Battery Mode	LCD Displo	ау	UPS status,	Load level, Battery level, Input.	Output voltage, Discharge tim	er, and Fault
Low Battery Sounding every second	ALARM					
Dimension, D x W x H (mm)	Battery Mo	ode	Sounding every 4 seconds			
Fault	Low Batter	ry	Sounding every second			
## PHYSICAL Standard Model Dimension, D x W x H (mm)	Overload		Sounding twice every second			
Standard Model Dimension, D x W x H (mm) 815 x 250 x 826 815 x 300 x 1000 Model 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 826 815 x 250 x 826 Net Weight (kgs) 38 40 40 64 IP Protection IP20 ENVIRONMENT Operating Humidity 0-95 % RH @ 0- 40°C (Non-condensing) Noise Level Less than 60dB @ 1 Meter MANAGEMENT Smart RS-232 / USB Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety IEC/EN 62040-1	Fault					
Model 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 826 815 x 250 x 826 Model Net Weight (kgs) 38 40 40 64 IP Protection 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 Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS IEC/EN 62040-1	PHYSICAL					
Model Net Weight (kgs) 109 164 164 233.5 Long-run Dimension, D x W x H (mm) 592 x 250 x 826 592 x 250 x 826 815 x 250 x 826 Model Net Weight (kgs) 38 40 40 64 IP Protection IP20 ENVIRONMENT Operating Humidity 0-95 % RH @ 0- 40°C (Non-condensing) Noise Level Less than 60dB @ 1 Meter MANAGEMENT Smart RS-232 / USB Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety	Standard	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
Dimension, D x W x H (mm) 592 x 250 x 826 592 x 250 x 826 815 x 250 x 826 Model Net Weight (kgs) 38 40 40 64 IP Protection			109	164	164	233.5
Model Net Weight (kgs) 38 40 40 64 IP Protection IP20 ENVIRONMENT Operating Humidity 0-95 % RH @ 0-40°C (Non-condensing) Noise Level Less than 60dB @ 1 Meter MANAGEMENT Smart RS-232 / USB Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety IEC/EN 62040-1	Long-run		592 x 250 x 826	592 x 250 x 826	592 x 250 x 826	815 x 250 x 826
IP Protection 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 Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety IEC/EN 62040-1		Net Weight (kgs)	38	40	40	64
ENVIRONMENT Operating Humidity Noise Level Less than 60dB @ 1 Meter MANAGEMENT Smart RS-232 / USB Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety IEC/EN 62040-1	IP Protection	on		IF	20	
Operating Humidity O-95 % RH @ 0-40°C (Non-condensing) Noise Level Less than 60dB @ 1 Meter MANAGEMENT Smart RS-232 / USB Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety IEC/EN 62040-1			<u></u> _			
Noise Level MANAGEMENT Smart RS-232 / USB Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety IEC/EN 62040-1			0-95 % RH @ 0- 40°C (Non-condensing)			
MANAGEMENT Smart RS-232 / USB Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety IEC/EN 62040-1			Less than 60dB @ 1 Meter			
Smart RS-232 / USB Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC Optional SNMP Viewpower PRO Power management from SNMP manager and web browser COMPLIANCE STANDARDS Safety IEC/EN 62040-1						
COMPLIANCE STANDARDS Safety IEC/EN 62040-1			Supports Win	ndows ² 2000/2003/XP/Vista/2	008, Windows² 7/8/10, Linux, U	nix and MAC
COMPLIANCE STANDARDS Safety IEC/EN 62040-1	Optional S	NMP	Viewpower PRO Power management from SNMP manager and web browser			
·	COMPLIAN	NCE STANDARDS				
	EMC					
Performance IEC/EN 62040-3 *When using internal hatteries from 18-19, the unit will de-rate according to below formula: P. – P. Pating v. N/20	Performan	nce	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

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