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

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



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

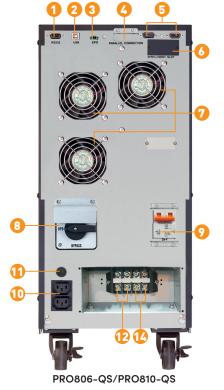
- 6. RS-232 communication port
- 7. Intelligent slot
- 8. Emergency power off function connector (EPO)
- 9. External battery connection
- 10. Cooling fan



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
- 11. Output circuit breaker for receptacles
- 12. Output terminal: connect to mission-critical loads
- 13. External battery connector
- 14. Utility input terminal





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

Specifications

| MODEL | | PRO801-QS | PRO8015-QS | PRO8 | 02-QS | PRO803-QS |
|---|---|---|---|--|---|----------------------------|
| PHASE | | | | phase with ground | | |
| CAPACITY* | * | 1000 VA / 1000 W | 1500 VA / 1500W | - | / 2000 W | 3000 VA / 3000 W |
| INPUT | | 1000 447 1000 4 | 1300 447 1300 4 | 2000 14 | 7 2000 W | 3000 VA7 3000 W |
| | 1. | | | | | |
| Nominal Voltage | | 200/208/220/230/240 VAC 110 - 300 VAC ± 3 % at 50% load | | | | |
| Voltage Range | | 110 - 300 VAC ± 3 % at 50% load 160 - 300 VAC ± 3 % at 100% load | | | | |
| Frequency Range | | 40Hz ~ 70Hz | | | | |
| Power Factor | | \geqq 0.99 @ nominal voltage (100% load) | | | | |
| THDi% | | \leq 5% | | | | |
| OUTPUT | | | | | | |
| Output Voltage | | 200*/208*/220/230/240 VAC | | | | |
| AC Voltage Regulation (Batt. Mode) | | ± 1% | | | | |
| requency F | Range (Synchronized Range) | | 47 ~ 5 | 3 Hz or 57~63Hz | | |
| requency | Range (Batt. Mode) | | 50 Hz ± 0.1 | Hz or 60Hz ± 0.1 Hz | | |
| Current Cre | est Ratio | | | 3:1 | | |
| Harmonic Distortion | | | ≦2% THD (Linear Load | d). ≦4 % THD (Non-lir | near Load) | |
| AC to DC | | | | Zero | , | |
| ransfor | | | | | | |
| ime | Inverter to Bypass | | | ms (Typical) | | |
| | ECO to Battery Mode | | | pical), 10 ms (max) | | |
| | (Batt. Mode) | | Pu | ire Sinewave | | |
| EFFICIENCY | | | | | | |
| | | ≥ 89% @ battery fully charged ≥91% @ battery fully charged | | | | |
| ECO Mode Battery Mode | | ≥96% © battery fully charged ≥88% ≥90% | | | | |
| BATTERY | Jue | ≦00% | | | ≧90% | |
| | 20 | 12 V / 7 AH | 12 V / 9 AH | 12 V / 9 AH | 12 V / 7 AH | 12 V / 9AH |
| Battery Type | | 3 | 12 V / 3 All | 4 | | |
| Numbers Typical Recharge Time | | | | | | |
| 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 adju | | adjustable | Default: 2A, Max: 8A adjustable | |
| Charging C | Current | 200/208/220/230/240 VAC m | | | | |
| | | 41.1VDC ± | | 54.8VDC | 82.2VDC + 1% | 82.2VDC |
| Charging V | /oltage | | | 54.8VDC ± 1% | 82.2VDC ± 1% | 82.2VDC ± 1% |
| Charging V | /oltage RS | 41.1VDC ± | 1% | ± 1% | ± 1% | ± 1% |
| Charging V NDICATOR .CD Panel | /oltage RS | 41.1VDC ± | | ± 1% | ± 1% | ± 1% |
| Charging V NDICATOR CD Panel | /oltage | 41.1VDC ± | 1% el, Battery level, AC mode, E | ± 1% | ± 1% | ± 1% |
| Charging V NDICATOR CD Panel ALARM Battery Mo | /oltage RS ode | 41.1VDC ± | 1% el, Battery level, AC mode, E Soundin | ± 1% Battery mode, Bypass | ± 1% | ± 1% |
| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery | /oltage RS ode | 41.1VDC ± | 1% el, Battery level, AC mode, E Soundin Soundin | ± 1% Battery mode, Bypass Ig every 5 seconds | ± 1% | ± 1% |
| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery Dverload | /oltage RS ode | 41.1VDC ± | 1% el, Battery level, AC mode, E Soundin Soundin Sound | ± 1% Battery mode, Bypass Ig every 5 seconds Ig every 2 seconds | ± 1% | ± 1% |
| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery Dverload Fault | /oltage RS ode | 41.1VDC ± | 1% el, Battery level, AC mode, E Soundin Soundin Sound | ± 1% Battery mode, Bypass Ig every 5 seconds Ig every 2 seconds ing every second | ± 1% | ± 1% |
| Charging V NDICATOR CD Panel ALARM Battery Mo ow Battery Dverload Fault PHYSICAL | /oltage RS ode | 41.1VDC ± | 1% el, Battery level, AC mode, E Soundin Soundin Sound Contir | ± 1% Battery mode, Bypass Ig every 5 seconds Ig every 2 seconds ing every second | ± 1% | ± 1% |
| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery Dverload Fault PHYSICAL Dimension, | /oltage RS ode y ,D x W x H (mm) | 41.1VDC ± Load lev | 1% el, Battery level, AC mode, E Soundin Soundin Sound Contir | ± 1% Battery mode, Bypass ig every 5 seconds ig every 2 seconds ing every second nuously sounding | ± 1% mode, and Fault indicc | ± 1% |
| Charging V NDICATOR CD Panel ALARM Battery Mo .ow Battery Dverload Fault PHYSICAL Dimension, Net Weight | /oltage RS ode y ,D x W x H (mm) t (without battery) (kgs) | 41.1VDC ± Load lev 397 x 145 x | 1% el, Battery level, AC mode, E Soundin Soundin Sound Contir 220 | ± 1% Battery mode, Bypass Ig every 5 seconds Ig every 2 seconds ing every second nuously sounding 9 | ± 1% mode, and Fault indicc 421 x 190 x 318 | ± 1% |
| Charging V NDICATOR CD Panel ALARM Battery Mo ow Battery Dverload Fault PHYSICAL Dimension, Net Weight Net Weight | /oltage RS ode y ,D x W x H (mm) t (without battery) (kgs) t (w/ built-in battery) (kgs) | 41.1VDC ± Load lev 397 x 145 x 6.6 | 1% el, Battery level, AC mode, E Soundin Sound Contir 220 7 | ± 1% Battery mode, Bypass Ig every 5 seconds Ig every 2 seconds ing every second nuously sounding 9 | ± 1% mode, and Fault indicc 421 x 190 x 318 .9 | ± 1% ator |
| Charging V NDICATOR CD Panel ALARM Battery Mo ow Battery Dverload Fault PHYSICAL Dimension, let Weight Let Weight ENVIRONM | /oltage RS ode y ,D x W x H (mm) t (without battery) (kgs) t (w/ built-in battery) (kgs) | 41.1VDC ± Load lev 397 x 145 x 6.6 | 1% el, Battery level, AC mode, E Soundin Soundin Contir 220 7 14.6 | ± 1% Battery mode, Bypass Ig every 5 seconds Ig every 2 seconds ing every second nuously sounding 9 | ± 1% mode, and Fault indicc 421 x 190 x 318 .9 3.2 | ± 1% ator |
| Charging V NDICATOR CD Panel ALARM Battery Mo cow Battery Doerload Fault PHYSICAL Dimension, Net Weight Net Weight ENVIRONM fumidity | /oltage RS ode y ,D x W x H (mm) t (without battery) (kgs) t (w/ built-in battery) (kgs) t NT | 41.1VDC ± Load lev 397 x 145 x 6.6 | 1% el, Battery level, AC mode, E Soundin Soundi Contir 220 7 14.6 20–95 % RH @ 0 | ± 1% Battery mode, Bypass Ig every 5 seconds ing every 2 seconds ing every second nuously sounding 9 23 0- 45°C (non-condens | ± 1% mode, and Fault indicc 421 x 190 x 318 .9 3.2 ing) | ± 1% ator |
| Charging V NDICATOR CD Panel ALARM Battery Mo ow Battery Dverload Fault PHYSICAL Dimension, Let Weight Let Weight ENVIRONM Humidity Loise Level | /oltage RS ode y ,D x W x H (mm) t (without battery) (kgs) t (w/ built-in battery) (kgs) t NT | 41.1VDC ± Load lev 397 x 145 x 6.6 | 1% el, Battery level, AC mode, E Soundin Soundi Contir 220 7 14.6 20–95 % RH @ 0 | ± 1% Battery mode, Bypass ig every 5 seconds ing every 2 seconds ing every second nuously sounding 9 23 | ± 1% mode, and Fault indicc 421 x 190 x 318 .9 3.2 ing) | ± 1% ator |
| Charging V NDICATOR CD Panel ALARM Battery Mo cow Battery Doerload Fault PHYSICAL Dimension, Net Weight Net Weight ENVIRONM Humidity Noise Level SURGE PRO | /oltage RS adde y ,D x W x H (mm) t (without battery) (kgs) t (w/ built-in battery) (kgs) t (m/ built-in battery) (kgs) t ENT I I I I I I I I I I I I I I I I I I I | 41.1VDC ± Load lev 397 x 145 x 6.6 | 1% el, Battery level, AC mode, E Soundin Soundi Contir 220 7 14.6 20–95 % RH @ 0 | ± 1% Battery mode, Bypass Ig every 5 seconds ing every 2 seconds ing every second huously sounding 9 23 0- 45°C (non-condens 1 Meter with Fan speed | ± 1% mode, and Fault indicc 421 x 190 x 318 .9 3.2 ing) | ± 1% ator |
| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery Doverload Fault PHYSICAL Dimension, Net Weight Net Weight ENVIRONM Humidity Noise Level SURGE PRO | /oltage RS ade y ,D x W x H (mm) t (without battery) (kgs) t (w/ built-in battery) (kgs) t (w/ built-in battery) (kgs) t ENT I I I I I I I I I I I I I | 41.1VDC ± Load lev 397 x 145 x 6.6 | 1% el, Battery level, AC mode, E Soundin Soundi Contir 220 7 14.6 20–95 % RH @ 0 | ± 1% Battery mode, Bypass Ig every 5 seconds ing every 2 seconds ing every second nuously sounding 9 23 0- 45°C (non-condens | ± 1% mode, and Fault indicc 421 x 190 x 318 .9 3.2 ing) | ± 1% ator |
| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery Dverload Fault PHYSICAL Dimension, Net Weight ENVIRONM Humidity Noise Level SURGE PRO Surge Ener MANAGEM | /oltage RS adde y adde y adde y adde y adde y adde y adde y adde y adde y adde y adde y adde y adde adde y adde adde y adde adde y adde adde adde y adde | 41.1VDC ± Load lev 397 x 145 x 6.6 13 | 1% el, Battery level, AC mode, E Soundin Soundin Contir 220 7 14.6 20–95 % RH @ (Less than 50dBA @ 1 | ± 1% Battery mode, Bypass Ig every 5 seconds ing every 2 seconds ing every second nuously sounding 9 23 0- 45°C (non-condens 1 Meter with Fan speed 625] | ± 1% mode, and Fault indica 421 x 190 x 318 .9 3.2 ing) d control | ± 1% ator 12.3 28 |
| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery Doverload Fault Diverload Fault Diverload Fault Diverload Fault Diverload Fault Diverload Fault Net Weight ENVIRONM Humidity Noise Level SURGE PRO Surge Ener MANAGEM Smart RS-2 | /oltage RS ade y ade y add y bde y add y add y add y add y add y add y add y add y add y add add | 41.1VDC ± Load lev 397 x 145 x 6.6 13 | 1% el, Battery level, AC mode, E Soundin Soundin Contir 220 7 14.6 20–95 % RH @ (Less than 50dBA @ 1 s Windows® 2000/2003/XP | ± 1% Battery mode, Bypass Ig every 5 seconds ing every 2 seconds ing every second nuously sounding 9 23 0- 45°C (non-condens 1 Meter with Fan speed 625] /Vista/2008, Windows | ± 1% mode, and Fault indica 421 x 190 x 318 .9 3.2 ing) d control | ± 1% ator 12.3 28 |
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| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery Doverload Fault Diverload Fault Diverload Fault Diverload Fault Diverload Fault Diverload Fault Noise Level SURGE PRO Surge Ener MANAGEM Smart RS-2 Diptional St | /oltage RS ade y ade y add y bde y add y add y add y add y add y add y add y add y add y add add | 41.1VDC ± Load lev 397 x 145 x 6.6 13 | 1% el, Battery level, AC mode, E Soundin Sound Contir 220 7 14.6 20-95 % RH @ (Less than 50dBA @ 1 ts Windows [®] 2000/2003/XP Power management fro | ± 1% Battery mode, Bypass Ig every 5 seconds ing every 2 seconds ing every second nuously sounding 9 23 0- 45°C (non-condens 1 Meter with Fan speed 625] /Vista/2008, Windows | ± 1% mode, and Fault indica 421 x 190 x 318 .9 3.2 ing) d control | ± 1% ator 12.3 28 |
| Charging V NDICATOR CD Panel ALARM Battery Mo Low Battery Doverload Fault Diverload Fault Diverload Fault Diverload Fault Diverload Fault Diverload Fault Noise Level SURGE PRO Surge Ener MANAGEM Smart RS-2 Diptional St COMPLIAN | /oltage RS RS pde y p ,D x W x H (mm) p (without battery) (kgs) t (wi built-in battery) (kgs) t (without battery) (kgs) t (m/ built-in battery) (kgs) t (m/ | 41.1VDC ± Load lev 397 x 145 x 6.6 13 | 1% el, Battery level, AC mode, E Soundin Soundi Contir 220 7 14.6 20-95 % RH @ 0 Less than 50dBA @ 1 ts Windows [®] 2000/2003/XP Power management fro | ± 1% Battery mode, Bypass ig every 5 seconds ing every 2 seconds ing every second nuously sounding 9 2: 0- 45°C (non-condens 1 Meter with Fan speed 625] /Vista/2008, Windows m SNMP manager and | ± 1% mode, and Fault indica 421 x 190 x 318 .9 3.2 ing) d control | ± 1% |

*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 | | n / 1 phase out | | | |
| CAPACITY | 6000 VA / 6000 W | 10000 VA / 10000 W | | | |
| INPUT | | | | | |
| Nominal Voltage | 208/220 |)/230/240 VAC | | | |
| | 110-300VAC ± 3% at 50% load ; 176~300VAC ± 3% at 100% load 46~54 Hz or 56~64 Hz | | | | |
| Voltage Range | | | | | |
| Frequency Range | | | | | |
| Phase | | | | | |
| | Single phase with ground | | | | |
| Power Factor | ≥ 0.99 © full load <4% ©100% Load ; <6% ©50% Load | | | | |
| THDi DUTPUT | <4% ଭାପ0% Lod | a; <6% @50% Loda | | | |
| Dutput Voltage | 208/220 | 0/230/240 VAC | | | |
| AC Voltage Regulation (Batt. Mode) | ± 1% | | | | |
| Frequency Range (Synchronized Range) | ± 1% 46~54 Hz or 56~64 Hz | | | | |
| Frequency Range (Batt. Mode) | | z or 60 Hz ± 0.1 Hz | | | |
| Current Crest Ratio | | l (max.) | | | |
| | | | | | |
| larmonic Distortion | | ≤ 4 % THD (Non-linear Load) | | | |
| ransfer AC Mode to Batt. Mode | | Zero | | | |
| ime Inverter to Bypass Vaveform (Batt, Mode) | | Zero Sinewaye | | | |
| | | | | | |
| Overload | 100%~110% 10min ; 110%~1 | | | | |
| Battery Mode | 100%~110%: 30sec ; 110%~13 | 30%: 10sec ; >130% : Isec | | | |
| | | 94% | | | |
| CO Mode | | 94% ery fully charged | | | |
| attery Mode | - | 91% | | | |
| ATTERY | | 51/6 | | | |
| Battery Type | 12 V / 7 Ah | 12 V / 9 Ah | | | |
| Numbers | | 20 | | | |
| itandard Typical Pocharao Timo | 9 hours recover to 90% capacity | | | | |
| Aodel Charging Current (max.) | | 1.0 A | | | |
| Charging Voltage | 273 VI | DC ± 1% | | | |
| Battery Type | Depending | g on applications | | | |
| ong-run Numbers | 11 | 6-20** | | | |
| Model Charging Current (max.) | 4.0 A (Parallelable up to 3 cha | rger borads to reach 12A maximum) | | | |
| Charging Voltage | 218.4 VDC ± 1% (Bas | ed on 16 pcs batteries) | | | |
| NDICATORS | | | | | |
| .CD Display | UPS status, Load level, Battery level, Input/O | Output voltage, Discharge timer, and Fault conditions | | | |
| LARM | | | | | |
| Battery Mode | Sounding every 4 seconds | | | | |
| ow Battery | , | Sounding every 2 seconds | | | |
| Dverload | | vice every second | | | |
| ault | Continuc | pusly sounding | | | |
| PHYSICAL | | | | | |
| Itandard Dimension, DxWxH (mm) Nodel Net Weight (kgs) | 592 x 250 x 576 | 592 x 250 x 576 | | | |
| | 81 | 83 | | | |
| ong-run Dimension, DxWxH (mm) | 592 x 250 x 576 | 592 x 250 x 576 | | | |
| Model Net Weight (kgs) | 25 | 27 | | | |
| INVIRONMENT | | | | | |
| Operating Humidity | 20-95 % RH @ 0- 40°C (Non-condensing) | | | | |
| loise Level | Less than 55dB @1Meter | Less than 58dB @1Meter | | | |
| URGE PROTECTION AND FILTERING | | | | | |
| Surge Energy Rating (Joules) | | 2112J | | | |
| MANAGEMENT | | | | | |
| mart 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 EMC | IEC/EN 62 | | | | |
| Performance | | IEC/EN 62040-2 IEC/EN 62040-3 | | | |
| | mode and to 90% when the output voltage is adjusted to 208VAC. | | | | |

* 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.

Ver1.0_19.05.2021

Authorised Distributor/ Reseller:



System Requirements: Windows XP/Vista/7/8/10, Mac, Linux

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