

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

PRO800-QS/QL SERIES 1-10KVA

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.



- 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



Local Area Network (LAN)



Servers



Electro-Medical Device



Storage PLCS



Emergency Alarm Devices

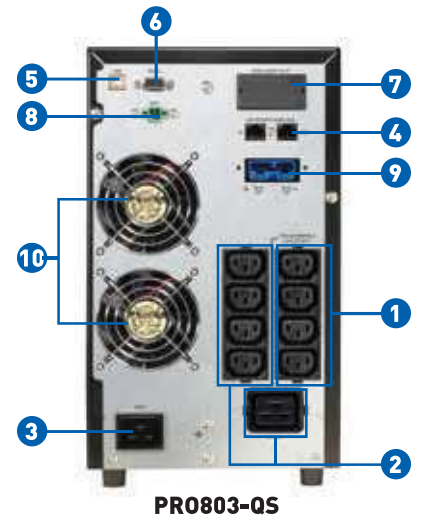
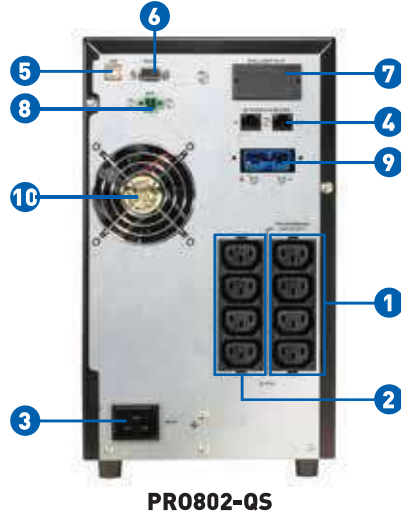
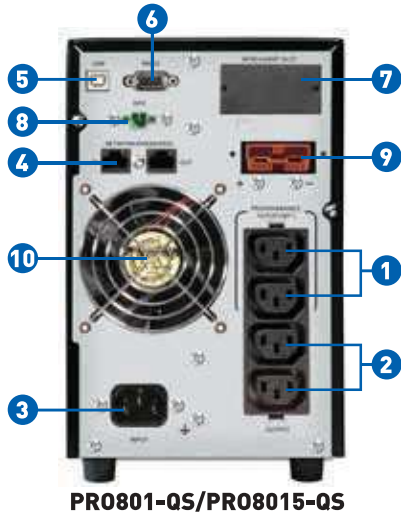


E-Business (Server Farms, ISP/ASP/POP)

Rear Panel

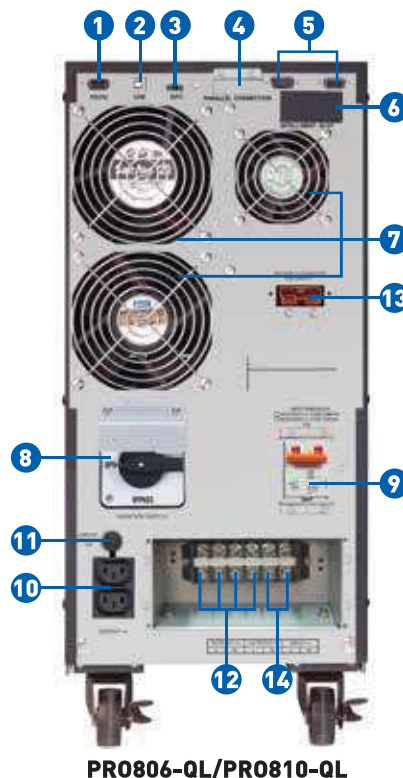
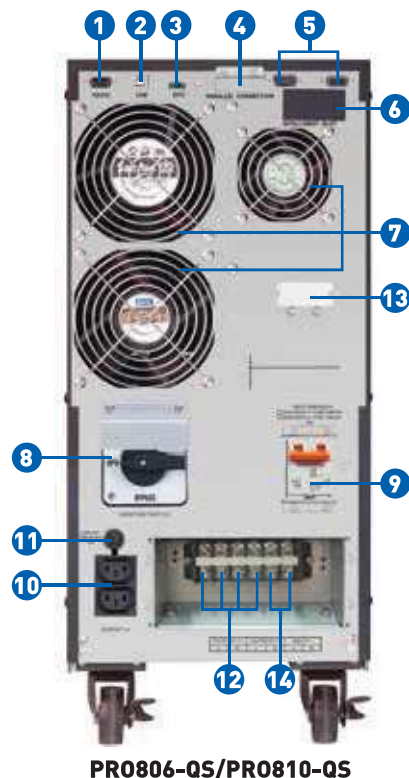
1-3KVA

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



6-10KVA

- | | |
|---|---|
| 1. RS-232 communication port | 8. Maintenance bypass switch |
| 2. USB communication port | 9. Input circuit breaker |
| 3. Emergency power off function connector (EPO connector) | 10. Output receptacles: connect to mission-critical loads |
| 4. Share current port | 11. Output circuit breaker for receptacles |
| 5. Parallel port | 12. Output terminal: connect to mission-critical loads |
| 6. Intelligent slot | 13. External battery connector |
| 7. Cooling fan | 14. Utility input terminal |



Full 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 ± 3 % at 50% load 160 - 300 VAC ± 3 % at 100% load			
Frequency Range	40Hz ~ 70Hz			
Power Factor	≥ 0.99 @ nominal voltage (100% load)			
THDi%	≤ 5%			
OUTPUT				
Output Voltage	200*/208*/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57~63Hz			
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 to DC	Zero		
	Inverter to Bypass	4 ms (Typical)		
	ECO to Battery Mode	8 ms (Typical), 10 ms (max)		
Waveform (Batt. Mode)	Pure Sinewave			
EFFICIENCY				
Line Mode	≥ 89% @ battery fully charged		≥ 91% @ battery fully charged	
ECO Mode			≥ 96% @ battery fully charged	
Battery Mode	≥ 88%		≥ 90%	
BATTERY				
Battery Type	12 V / 7 AH	12 V / 9 AH	12 V / 7 AH	12 V / 9AH
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	41.1VDC ± 1%		82.2VDC ± 1%	82.2VDC ± 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			
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

Full Specifications



MODEL		PRO806-QS/QL	PRO810-QS/QL
PHASE		1 phase in / 1 phase out	
CAPACITY		6000 VA / 6000 W	10000 VA / 10000 W
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			
Output Voltage		208/220/230/240 VAC	
AC 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 Sinewave	
Overload	AC Mode	100%~110% 10min ; 110%~130%: 1min ; >130% : 1sec	
	Battery Mode	100%~110%: 30sec ; 110%~130%: 10sec ; >130% : 1sec	
EFFICIENCY			
AC Mode		94%	
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
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.