



# 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

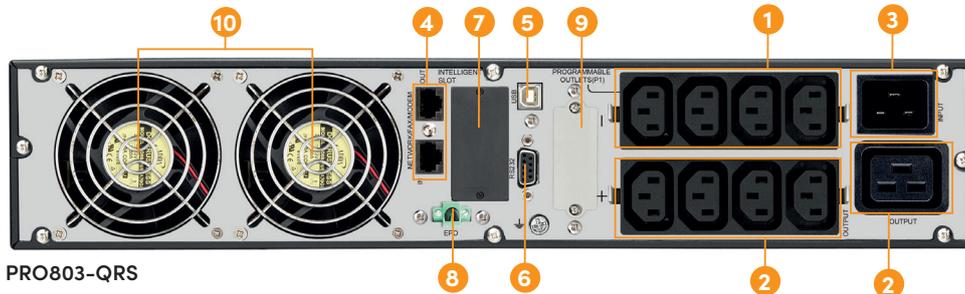
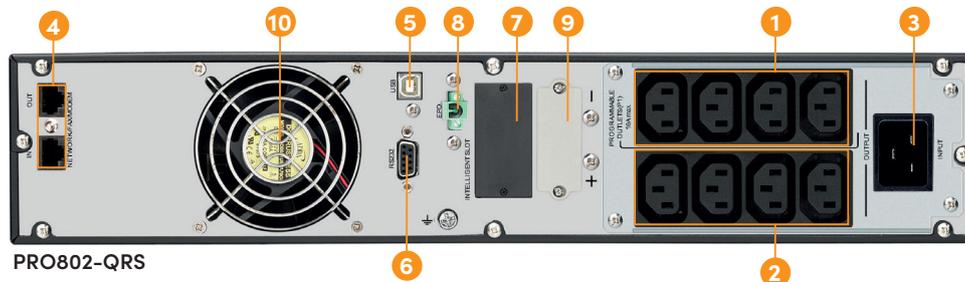
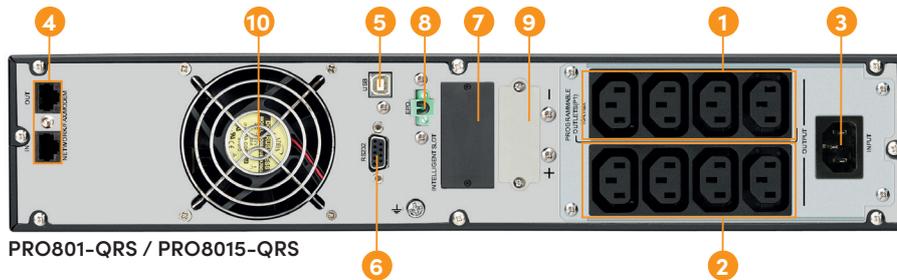
- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- Wide input voltage range (110-300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets<sup>^</sup>
- Hot swappable battery design<sup>^</sup>
- 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

<sup>^</sup>Only available for 1-3KVA

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





## 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
<b>INPUT</b>				
Nominal Voltage	200/208/220/230/240 VAC			
Voltage Range	110-300 VAC $\pm$ 5% @ 50% load 160-300 VAC $\pm$ 5% @ 100% load			
Frequency Range	40 Hz ~ 70 Hz			
Power Factor	$\geq$ 0.99 @ nominal voltage (100% load)			
Harmonic Distortion(THDi)	$\leq$ 5% @ nominal input voltage			
<b>OUTPUT</b>				
Output Voltage	200*/208*/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)	$\pm$ 1%			
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz			
Frequency Range (Batt. Mode)	60Hz $\pm$ 0.1Hz or 50 Hz $\pm$ 0.1Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	$\leq$ 2% THD (Linear Load) ; $\leq$ 4% THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)	Pure Sinewave			
<b>EFFICIENCY</b>				
AC Mode	$\geq$ 89% @ full charged battery		$\geq$ 91% @ full charged battery	
ECO Mode	$\geq$ 96% @ full charged battery			
Battery Mode	$\geq$ 88%		$\geq$ 90%	
<b>BATTERY</b>				
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 $\pm$ 1%	41.1 VDC $\pm$ 1%	82.1 VDC $\pm$ 1%	82.1 VDC $\pm$ 1%
<b>INDICATORS</b>				
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
<b>ALARM</b>				
Battery Mode	Sounding every 5 seconds			
Low Battery	Sounding every 2 seconds			
Overload	Sounding every second			
Fault	Continuously sounding			
<b>PHYSICAL</b>				
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
<b>ENVIRONMENT</b>				
Humidity	20-90 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 50dB @ 1 Meter			
<b>MANAGEMENT</b>				
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			
<b>COMPLIANCE STANDARDS</b>				
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	
<b>INPUT</b>			
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		
<b>OUTPUT</b>			
Output Voltage	208*/220/230/240 VAC	208*/220/230/240 VAC	
AC 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 Sinewave		
Overload	AC Mode	100%~110%: 10min    110%~130%: 1min    >130% : 1sec	
	Battery Mode	100%~110%: 30sec    110%~130%: 10sec    >130% : 1sec	
<b>EFFICIENCY</b>			
AC Mode	94%		
ECO Mode	≥ 96% @ battery fully charged		
Battery Mode	91%		
<b>BATTERY</b>			
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	
	Charging Voltage	(13.65VDC x battery number) ± 1%	
<b>INDICATORS</b>			
LCD Panel	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
<b>ALARM</b>			
Battery Mode	Sounding every 4 seconds		
Low Battery	Sounding every second		
Overload	Sounding twice every second		
Fault	Continuously sounding		
<b>PHYSICAL</b>			
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	
<b>ENVIRONMENT</b>			
Operating Humidity	20-90 % RH @ 0- 40°C (non-condensing)		
Noise Level	Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter	
<b>MANAGEMENT</b>			
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		
<b>COMPLIANCE STANDARDS</b>			
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.

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Authorised Distributor/ Reseller:

Compatible with:



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