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 1.0**
- **Input power factor correction**
- **Wide input voltage (110V–300V)**
- **50/60Hz Frequency Converter Mode**
- **ECO mode energy saving**
- **Emergency power off (EPO) function**
- **SNMP/USB/RS-232 multiple communications**
- **Adjustable charging current via LCD panel**
- **Generator compatible**
- **DSP technology guarantees high performance^**
- **Optional parallel redundant configuration (up to. 3 units)^**
- **Auto restart while AC is recovering**

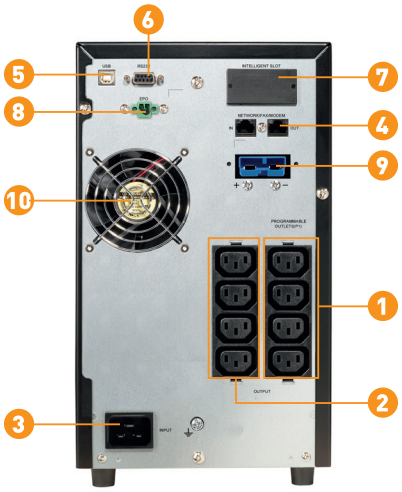
*Only available for 1-3KVA models ^Only available for 6-10KVA models

Rear Panel

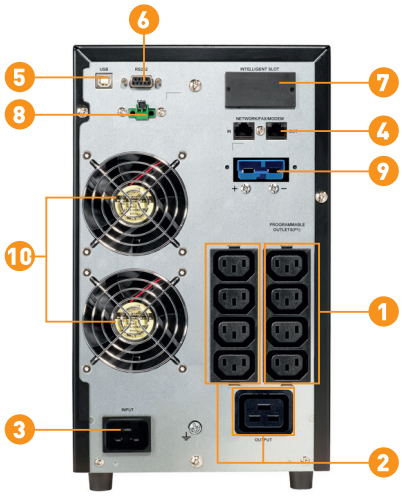
1-3KVA

1. Programmable outlets: connect to non-critical loads
2. Output receptacles: connect to mission-critical loads
3. AC input
4. Network surge protection
5. USB communication port
6. RS-232 communication port
7. Intelligent slot (SNMP/AS400 / Modbus Card options)
8. Emergency power off function connector (EPO)
9. External battery connector (External battery bank connection cable provided)
10. Cooling fan

PRO801-QS/PRO8015-QS



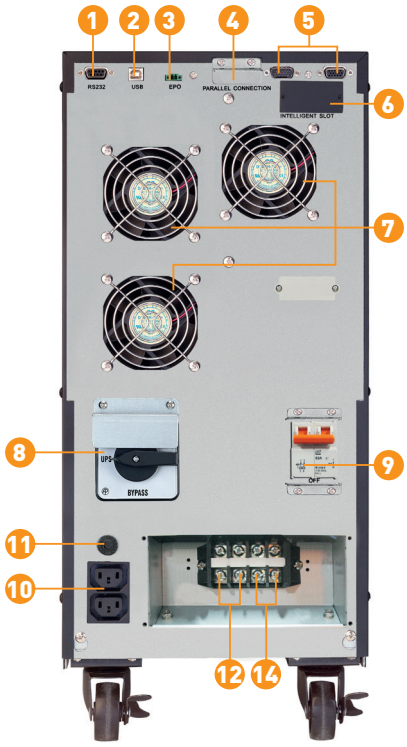
PRO802-QS



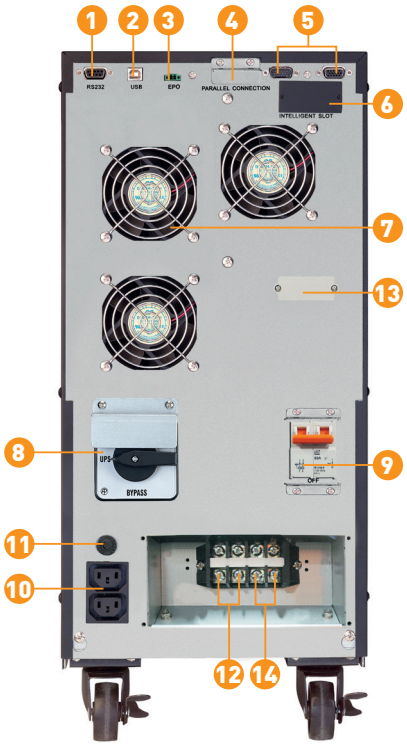
PRO803-QS

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 (SNMP/AS400 /Modbus Card options)
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 provided)
14. Utility input terminal



PRO806-QS/PRO810-QS



PRO806-QL/PRO810-QL

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

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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					
Nominal Voltage		200*/208*/220/230/240 VAC			
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 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 / 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 ± 1%		54.8VDC ± 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					
Operating Temperature		0- 40°C			
Humidity		0~95% RH (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® 7/8/10/11, 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, D x W x H (mm)	592 x 250 x 576	592 x 250 x 576
	Net Weight (kgs)	81	83
Long-run Model	Dimension, D x W x H (mm)	592 x 250 x 576	592 x 250 x 576
	Net Weight (kgs)	25	27
ENVIRONMENT			
Operating Temperature		0- 40°C	
Humidity		0~95% RH (Non-condensing)	
Noise Level		Less than 55dB @1Meter	Less than 58dB @1Meter
SURGE PROTECTION AND FILTERING			
Surge Energy Rating (Joules)		2112J	
MANAGEMENT			
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10/11, 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.

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Authorised Distributor/ Reseller:

Compatible with:
Windows Mac OS Linux