Master II Series (1P/1P) -Rack /Tower Lithium-ion Battery

PRO800-HRL | 1~3KVA, p.f 0.9

CCTV & Security Systems

Local Area Network (LAN)

Work-Stations

Servers

19" Rack Mount

Prolink **Master II Series (1P/1P) Rack/Tower Type** is a true online double conversion single phase UPS system which is designed to be used with Lithium-ion battery packs.. UPS is designed to deliver clean and high-quality electrical power to fully protect critical devices such as network servers, research lab equipment, medical lab equipment and etc. With external Lithium-ion battery packs, UPS can provide longer backup for the connecting critical loads.

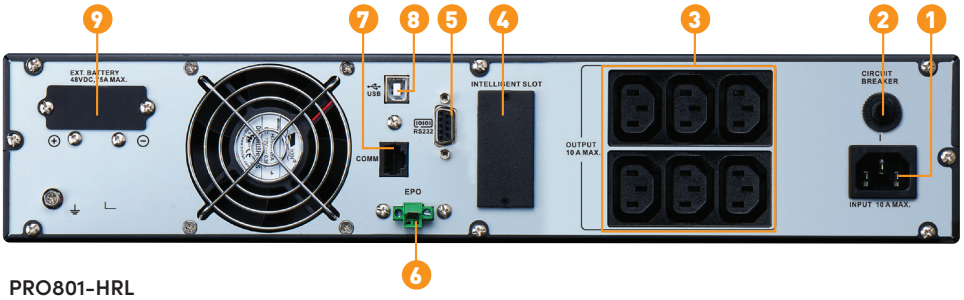
Key Features

- True double-conversion Online UPS
- Input power factor correction (≥0.99 @ nominal voltage (100% load)
- Output power factor 0.9
- Wide input voltage (110V – 300V)
- Comprehensive display allows easy monitoring and access of UPS status
- Adjustable charging current via LCD panel
- Generator compatible
- External Lithium-ion battery pack
- Higher Battery Efficiency in Charge and Discharge
- Built-in BMS system
- UN38.3 for Battery Transportation

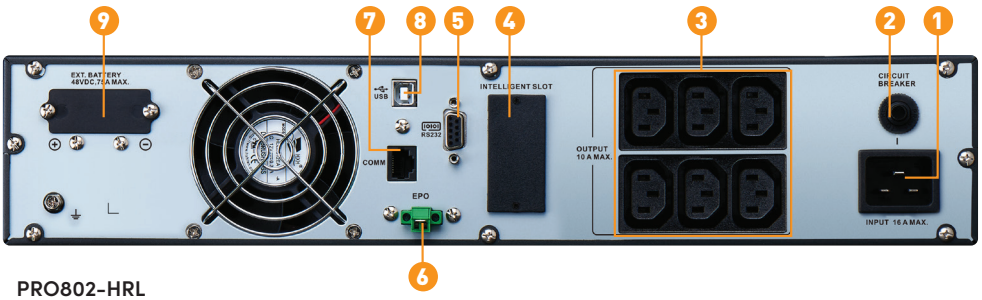
Rear Panel

1-3KVA

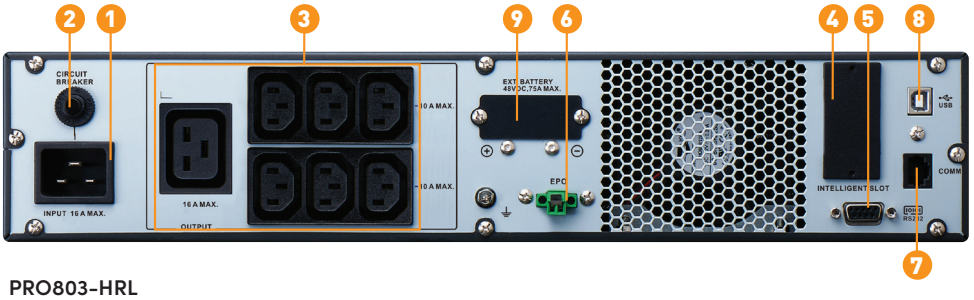
1. AC input
2. Input circuit breaker
3. Output receptacles
4. Intelligent slot
5. RS-232 communication port
6. Emergency power off function connector (EPO)
7. BMS communication port(for external battery pack)
8. USB communication port
9. External battery connection



PRO801-HRL



PRO802-HRL



PRO803-HRL

prolink

Specifications

MODEL		PRO801-HRL	PRO802-HRL	PRO803-HRL
PHASE		Single phase with ground		
CAPACITY		1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W
INPUT				
Nominal Voltage		230 VAC		
Voltage Range		160 VAC - 300 VAC @100% load 110 VAC @ 60% load (Derating)		
Frequency Range		40 Hz ~ 70 Hz		
Power Factor		≥ 0.99 @ nominal voltage (100% load)		
Input Connection		IEC 320 C14	IEC 320 C20	IEC 320 C20
OUTPUT				
Output Voltage		220/230/240 VAC (Selectable)		
AC Voltage Regulation (Batt. Mode)		± 1%		
Frequency Range (Synchronized Range)		57~63Hz or 47~53Hz		
Frequency Range (Batt. Mode)		50Hz /60Hz ± 0.1Hz		
Charging Current		5A	10A	10A(if O/P load>95%,CHG current derate to 6A)
Output Connection		(6) IEC 320 C13*	(6) IEC 320 C13*	(6) IEC 320 C13 + (1) IEC C19
Current Crest Ratio		3:1		
Harmonic Distortion		≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)		Pure Sinewave		
Overload	Line Mode	<35°C 105-125% 2min ; 125-140% 30sec ;		
	AC Mode	<35°C 105-120% 1min ; >120% immediately		
EFFICIENCY				
AC Mode		91%		
Battery Mode		86%		
ECO Mode		97%		
PHYSICAL				
Dimension, D X W X H (mm)		450 x 438 x 86	500 x 438 x 86	500 x 438 x 86
Net Weight (kgs)		8	8.8	9.7
EFFICIENCY				
Operation Humidity		0-96 % RH @ 0- 40°C (non-condensing)		
Noise Level		Less than 50dB @ 1 Meter		
MANAGEMENT				
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

External Battery Pack Selection Guide

MODEL	LIO 4805	LIO 4810
Cell Type	$LiFePO_4$	
Battery Capacity	50 Ah	100 Ah
Continuous Discharge Current	75 A	150 A
Max Charging Current Per Pack	50A (1C)	100A (1C)
Charging Voltage	52.5V	
Dimension, D X W X H (mm)	630 x 438 x 86	630 x 438 x 133
Net Weight (kgs)	28.2	48.5
Humidity	0-95%(non-condensing)	

* (8) IEC 320 C13 outlet option is available
**Product specifications are subject to change without further notice.

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Authorised Distributor/ Reseller:

Compatible with:

Windows Mac OS Linux

LIO Series

- **Modular design**
- **Life cycle : 8000 cycles at 25°C, 60% DOD**
- **1.5C continuous discharging current**
- **High surge discharging current up to 2C**
- **Wide operating voltage range from 34.5 to 52.5Vdc**
- **Flexible front and Rear installation**
- **Communication protocols: RS485**
- **Easy capacity extension by paralleled**
- **Aluminum case LiFeO4 for cells, more safety and stable**

LIO-4805 (Front view)

LIO-4805 (Back view)

LIO-4810 (Front view)

LIO-4810 (Back view)

Front & back access are both available.

Specifications

MODEL		LIO 4805	LIO 4810
CAPACITY		2400Wh	4800Wh
PARAMETERS			
Nominal Voltage		48VDC	
Full Charge Voltage (FC)		52.5VDC	
Full Discharge Voltage (FD)		34.5VDC	
Typical Capacity		50Ah	100Ah
Max Continuous Discharging Current		75A	150A
Max Peak Discharging Current		100A	150A
Battery Connector Max current		75A	75A+75A
Protection		BMS, Breaker	
Charge Voltage		52.5 ± 0.1V	
Maximum Charge Current		50A (0.5C)	100 A (0.5C)
Standard Charge Method		0.2C CC (Constant current) charge to FC, CV (Contstant voltage FC) charge till charge current decline to <0.05C	
Inner Resistance		<20m ohm	
PHYSICAL			
Dimension, D x W x H (mm)		630 x 438 x 86	630 x 438 x 133
Net Weight (kgs)		28.2	48.5
INDICATORS			
LED		Battery Status, Battery level, Battery fault, Alarm	
ENVIRONMENT			
Operating Environment	Charge	0°C~50 °C	
	Discharge	0°C~50 °C	
Storage Temperature (At 50% SOC and specified temp, recoverable capacity in % vs time / 50%)		< 18 months: -20°C~25 °C	
		< 3 months: 25°C~45 °C	
		< 1 months: 45°C~60 °C	
		20°C ± 5 °C is the recommended storage temperature	
MANAGEMENT			
Communication		RS485 port (RJ45), extension port (RJ11)	
Certifications		UN38.3, IEC 62619	
Design Life		>10 years @ 25 °C	
Lifecycle		> 4500 @ 25 °C	

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