prolink

Master II+ Series (3P/3P)-Tower

PRO83300-ES/EL SERIES | 10~30kVA, p.f 0.9

Local Area Network (LAN)

Servers

Emergency Alarm Devices

Prolink Master II+ (3P/3P) Series are UPS systems are designed to deliver clean and high quality electrical power to fully protect wide range of critical applications 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. In order to have improved performance and real time harmonic cancellation, DSP (IGBT) control technology is implemented for all Master II+ series. 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.

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.

Maintenance bypass is available for the loads which uptime is critical so that bypass allows seamless transfer of electrical loads from UPS power to mains. Parallel Redundant configuration is available as an option.

Master II+ Tower Series (3P/3P) P.F 0.9 is available in capacities ranging from 10KVA to 30KVA. UPS ratings from 10KVA to 20KVA accept dual-mains input.
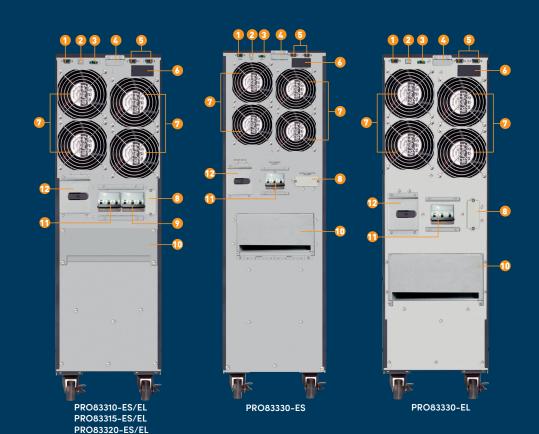
Key Features

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.9
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode

- ECO mode operation for energy saving (ECO)
- Accepts dual-mains inputs (Only for 10K/15K/20K models)
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications

- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Maintenance bypass available
- Optional N+X parallel redundancy

Rear Panel

10-30KVA

1. RS-232 communication port
2. USB communication port
3. Emergency power off function connector (EPO connector)
4. Share current port (only available for parallel configuration)
5. Parallel port (only available for parallel configuration)
6. Intelligent slot (RJ11/ RJ45 /SNMP Card/ EMD / AS400)
7. Cooling fan
8. External battery connector (Only available for long-run model)
9. Bypass Input Circuit Breaker (Only available for dual input unit)
10. Input/Output terminal
11. Line Input circuit breaker
12. Maintenance bypass switch

PRO83310-ES/EL
PRO83315-ES/EL
PRO83320-ES/EL

PRO83330-ES

PRO83330-EL

Specifications

MODEL		PRO83310-ES/EL	PRO83315-ES/EL	PRO83320-ES/EL	PRO83330-ES/EL
PHASE		3-phase in / 3-phase out			
CAPACITY		10000 VA / 9000 W	15000 VA / 13500 W	20000 VA / 18000 W	30000 VA / 27000 W
INPUT					
Nominal Voltage		3 x 400 VAC (3Ph+N)			
Input Voltage Range		190-520 VAC ±5% (3-phase) at 50% load ; 305-478 VAC ±5% (3-phase) at 100% load			
Frequency Range		46~54 Hz or 56~64Hz			
Power Factor		≧ 0.99 @ 100% Load			
OUTPUT					
Output Voltage		3 x 380VAC/400VAC/415VAC (3Ph+N)			
AC Voltage Regulation (Batt. Mode)		± 1%			
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (max.)			
Harmonic Distortion		≦ 2 % 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			
Over load		100~110% for 10 min, 110~130% for 1 min, >130% for 1s			
EFFICIENCY					
AC Mode		90.5%	91.5%	91.5%	92.1%
ECO Mode		97%			
Battery Mode		87%	88%	88%	89%
BATTERY					
Standard Model	Battery Type	12 V / 9 Ah			
	Numbers	20 pcs (18 - 20 adjustable)*	20 pcs (18 - 20 adjustable)*x 2 strings		20pcs (18-20 adjustable)* x 3 strings
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1A	2A	2A	4A
	Charging Voltage	273 VDC ± 1%			
Long-run Model	Battery Type	Depending on the capacity of external batteries			
	Numbers				
	Charging Current (max.)	4A	4A	4A	12A
	Charging Voltage	273 VDC ± 1%			
INDICATORS					
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault			
ALARM					
Battery Mode		Sounding every 4 seconds			
Low Battery		Sounding every second			
Overload		Sounding twice every second			
Fault		Continously sounding			
PHYSICAL					
Standard Model	Dimension, D x W x H (mm)	815 x 250 x 826	815 x 250 x 826	815 x 250 x 826	815 x 300 x 1000
	Net Weight (kgs)	109	164	164	233.5
Long-run Model	Dimension, D x W x H (mm)	592 x 250 x 826	592 x 250 x 826	592 x 250 x 826	815 x 250 x 826
	Net Weight (kgs)	38	40	40	64
IP Protection		IP20			
ENVIRONMENT					
Operating Humidity		0-95 % RH @ 0- 40°C (Non-condensing)			
Noise Level		Less than 60dB @ 1 Meter	Less than 65dB @ 1 Meter		
MANAGEMENT					
Smart RS-232 / USB		Supports Windows² 2000/2003/XP/Vista/2008, Windows² 7/8/10, Linux, Unix and MAC			
Optional SNMP		Viewpower PRO 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			

*When using internal batteries from 18-19, the unit will de-rate according to below formula: P = P Rating x N/20.
Product specifications are subject to change without further notice

Authorised Distributor/ Reseller:

Compatible with:

Windows   Mac OS   Linux