



Professional On-Line & Line-Interactive UPS Solutions True Double Conversion 1.0kVA - 20kVA & 30kVA - 800kVA

Output Power Factor 0.9 - Rack/Tower 2 in 1 Design - LCD Display - Perfect Battery Pack

Proline Series Online UPS Systems

10/20/30 kVA with battery bank solution 3-Phase Input / 3-Phase Output

Designed in small footprints, Proline TW 3P/3P online series integrates true double conversion design, DSP technology, and active input power factor correction design to ensure better output voltage conditions, power quality and power performance at all times. Besides, easy-configurable program via LCD panel enhances the flexibility to meet ever-increasing power demand of IT and networked environment.

Features & Advantages

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 0.8
- Wide input voltage range (110-300 VAC)
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving
- Accepts dual-mains inputs
- 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
- Optional isolation transformer offers full isolation and complete common mode noise rejection



Proline TW 10/20 kVA



Proline TW 30 kVA



Proline 10/20 kVA rear view



Proline 30 kVA rear view

Battery Bank for Proline Series 10/20/30 kVA UPS



Battery bank	Battery Type	Batteries	Bank Capacity	Dimension
BB-240/9RT	12V/9Ah	20 pcs	240V / 9Ah	580 x 438 x 133 mm

Backup Time: Please see the following Backup Time Table

Battery Bank for Proline Series 10/20/30 kVA UPS



Battery bank	Battery Type	Batteries	Bank Capacity	Dimension
BB-240/18T	12V/9Ah	40 pcs	240V / 18Ah	596 x 250 x 576 mm
BB-240/27T	12V/9Ah	60 pcs	240V / 27Ah	830 x 250 x 576 mm

Backup Time: Please see the following Backup Time Table

Backup Time Table for Proline TW Series 10/20/30 kVA UPS

UPS	Battery Bank	Backup Time (min)		
		100%	75%	50%
Proline TW PR-3310TL Tower 10.0 kVA	without Internal Battery	0	0	0
	+ 1 BB-240/9RT - 240V / 9 Ah	2,5	5,5	12,5
	+ 1 BB-240/18T - 240V / 18 Ah	12,5	28	44
	+ 1 BB-240/27T - 240V / 27 Ah	33,5	44	54,5
	+ 2 BB-240/18T - 240V / 36 Ah	51	60	159
Proline TW PR-3320TL Tower 20.0 kVA	without Internal Battery	0	0	0
	+ 1 BB-240/18T - 240V / 18 Ah	2,6	5,6	13,5
	+ 1 BB-240/27T - 240V / 27 Ah	7,1	12,7	33,7
	+ 2 BB-240/18T - 240V / 36 Ah	12,7	28	44

Proline TW PR-3330TL Tower 30.0 kVA	without Internal Battery	0	0	0
	+ 1 BB-240/27T - 240V / 27 Ah	3,2	6,5	13,8
	+ 2 BB-240/27T - 240V / 54 Ah	13	28,8	45
	+ 4 BB-240/27T - 240V / 108 Ah	35	45	55

P	Model	kVA	Form	Datasheet	Brochure	Manual	SNMP Card	Software	Price
1	PR-3310TL	10.0 kVA	Tower						
2	PR-3320TL	20.0 kVA	Tower	PDF	PDF	PDF	Go to SNMP	Go to Software	Pricelist
3	PR-3330TL	30.0 kVA	Tower						

Specification			
Model	PR-3310TL	PR-3320TL	PR-3330TL
Phase		3 phase in / 3 phase out	
Capacity	10.0 kVA / 8kW	20.0 kVA / 16kW	30.0 kVA / 24kW

Input	
Voltage Range	305-478 VAC (3-phase) @ 100% Load 190-520 VAC (3-phase) @ 50% Load
Frequency Range	46Hz ~ 54Hz or 56Hz ~ 64Hz
Power Factor	≥ 0.99 @ 100% Load

Output	
Output Voltage	3x400 VAC (3Ph + N)
Voltage Regulation	± 1%
Frequency range (Synchronized Range)	46Hz ~ 54Hz or 56Hz ~ 64Hz
Frequency Range (Batt. Mode)	50Hz ± 0.1Hz or 60Hz ± 0.1Hz
Current Crest Ratio	3:1 (max.)
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 5% THD (Non-linear Load)
Transfer Time	Zero
Bypass to Inverter / Inverter to Bypass	Zero
Waveform (Batt. Mode)	Pure Sinewave

Efficiency			
AC Line Mode	89%	89%	89%
Battery Mode	86%	88%	87%

Battery			
Long-Run Model	Battery Type	Depending on the capacity of external batteries	
	Numbers	Depending on the capacity of external batteries	
	Charging Current (max.)	4A	4A
	Charging Voltage	273 VDC ± 1% (based on 20 pcs batteries)	

Indicators	
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault condition

Alarm	
Battery Mode	Sounding every 4 seconds
Low Battery	Sounding every second
Overload	Sounding twice every second
Fault	Continuously sounding

AC Input & Output Connectors	
AC Input Connector	Terminal
AC Output Connector	Terminal

Standards	
IEC 62040-1 (safety)	Yes
IEC-62040-2 (EMC)	Yes
CE	Yes

Physical dimensions			
Long-Run Model	Dimension (mm)	592 (D) x 250 (W) x 826 (H)	592 (D) x 250 (W) x 826 (H)
	Net Weight (kgs)	38	40
			815 (D) x 250 (W) x 826 (H)
			62

Environment		
Humidity	0-90% RH @ 0-40°C (non-condensing)	
Noise Level	Less tahn 58dBa @ 1 Meter	Less tahn 60dBa @ 1 Meter

Management	
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC
Optional SNMP	Power management from SNMP manager and web browser

*When using internal batteries from 18-19, the unit will de-rate according to the below formula: $P = P_{Rating} \times N/20$.