

Vanguard II Rack & Tower Long back-up model (VRTL)

Extensive critical support for your server and data center



VRT-1000/1500/2000/3000-L



VRT-6K/10K-L

Main Feature

Power Efficiency

0.9 Power Factor

A higher real power ratio satisfies higher power density and better space design.

On-Line Double Conversion Technology

High-frequency, double-conversion Technology provides quality power with real sine wave output.

Fan Speed Regulation

Automatic adjustment based on load variances gives optimal temperature control with lower noise.

Advanced Battery Management System*

Precise charging base on battery condition and temperature enables extended battery life and efficiency.

Manual Control Friendly

Multi-Language LCD

LCD supports English, Japanese, French, German, Italian, and more.

UPSMON PRO Software & App Support

Access advance features like status display, scheduled event, and setting adjustment through computer and mobile devices.

EPO

Emergency Power Off enables imminent shutdown during critical times.

DC Cold Start Function

UPS operation available without the main power base on user needs.

Compatibility

Rack & Tower Design

Highly compatible with commercial and data center server rack. Tower stands are also available.

Specialized Battery Expansion Model

Support multiple battery connections, suitable for large battery reserve and long back-up demand.

Selectable Output Voltage

User-adjustable voltage output offers flexibility to various critical equipment needs.

Frequency Stabilizing Feature

Maintain consistent 50/60Hz output with wide frequency range acceptance.

Monitoring Connectivity

USB, RS232, and SNMP port provide cable and online connection from your monitoring system.

Generator Compatible

The Generator mode can transform highly unstable input to reliable power.

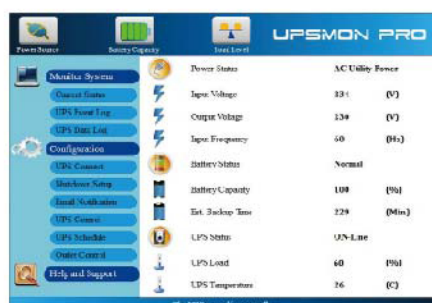
*Only available on 1-3KVA model



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UPSMON for portable Device



UPSMON PRO Interface

On-Line UPS

Specification

Model	VRT-1000-L	VRT-1500-L	VRT-2000-L	VRT-3000-L	VRT-6000-L	VRT-10K-L
Configuration						
Capacity (VA)	1000 VA	1500 VA	2000 VA	3000 VA	6000 VA	10000 VA
Capacity (Watts)	900 W	1350 W	1800 W	2700 W	5400 W	9000 W
Form	Rackmount					
Phase	Single Phase					
Energy Saving	Yes - ECO Mode Efficiency >94%					
Input						
Voltage	220 / 230 / 240 VAC					
Input Voltage Range (110 VAC)	120 - 276 VAC, < 25% Load					
Input Voltage Range (220 VAC)	140 - 276 VAC, < 50% Load 160 - 276 VAC, < 75% Load 180 - 276 VAC, < 100% Load					
Input Frequency Range	50 / 60 Hz ± 2.5 auto sensing (45Hz to 65Hz user selectable)					
Input Power Factor	>0.97					
Cold Start	Yes					
Output						
Rated Power Factor	0.9					
Waveform	Pure Sine Wave					
Voltage	220 / 230 / 240 VAC ± 2% (selectable output voltage)					
Frequency	50 / 60 Hz ±0.25 Hz					
Transfer Time	0 ms					
Harmonic Distortion	< 5% of THD at non-linear load < 2.5% of THD at linear load				< 5% of THD at non-linear load < 3% of THD at linear	
Crest Factor	3 : 1					
EPO Function	Yes					
Protection						
Overload	Line Mode	106% - 120% for 30 seconds 121% - 150% for 10 seconds				
	Battery Mode	101% - 109% for 10 seconds 110% - 120% for 3 seconds				
Surge Protection	IEC 61000-4-5 Level 3					
Bypass	Internal Bypass (Automatic and Manual)					
Short Circuit Protection	UPS Output Cut Off Immediately or protected by input fuse or circuit breaker					
Overload Protection	UPS automatic power off if overload exceeds 106 ~ 120% of nominal at 30 seconds; 121 ~ 150% for 10 seconds					
Tele-Communication	RJ45 x 2					
Alarm	Buzzer beeps under backup mode, battery low, battery charging fault, and overload					
Charger						
UPS	1A					
UPS Build In	5A				--	
Charger Box In	--				8A	
Total	6A				9A	
Battery						
Voltage (Recommended)	36V	48V	72V		240V	
Management & Communication						
Indicator	LED & LCD Control Panel					
Communication Port	RS 232, USB B type					
SNMP Slot	Option					
Audible Alarms	Yes					
Physical						
UPS	Dimensions(WxDxH)(mm)	428 x 425 x 84	428 x 500 x 84	428 x 635 x 84		428 x 597 x 130
	Weight (kgs)	8.2	11	14.4	14.6	20
	Shipping Dimensions(mm)	546 x 552 x 206	550 x 620 x 220	550 x 750 x 220		560 x 740 x 273
	Shipping Weight (kgs)	11.5	14.6	18.5	18.7	24
Charger Box	Dimensions(WxDxH)(mm)	--	--	--		428 x 597 x 130
	Weight (kgs)	--	--	--		9
	Shipping Dimensions(mm)	--	--	--		560 x 740 x 273
	Shipping Weight (kgs)	--	--	--		13

* While 110/208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.