

Vanguard UPS 6kVA – 10kVA

Alphapower

The Vanguard UPS provides true on-line technology with a pure sine wave output for a range of applications. The microprocessor controlled unit is fully digitised making this UPS ideal for critical load protection. The system has an Efficiency Optimiser function to minimise power loss and reduce power consumption by automatically switching between by-pass and on-line modes

This system supplies clean, uninterrupted, single phase power to a critical load while continuously keeping batteries charged for back-up.

Model	Capacity
VGD-6000/RM	6000VA 4900W
VGD-8000/ RM	8000VA 5600W
VGD-10000/RM	10000VA 7000W



Some key features include:

- Cold start (DC Power on)
- Lightning, surge, short circuit and overload protection
- Battery replacement warning
- Schedule shutdown and reboot
- Hot swappable battery by user
- Emergency power off function
- Optional SNMP card slot
- Wide input voltage range
- Power factor correction
- Manual bypass setting
- Free run mode setting
- EMI and RFI noise filter
- RS-232 comm port & USB comm support
- Multiple language LCD display
- On-line output voltage selection
- Sine wave output <3% THD
- Advanced battery management
- Automatic diagnostics and battery check
- Optional extension battery pack
- History of power failure record
- Fan speed automatically controlled when load varies

Product Specifications

Tower Model (LCD Display)	VGD-6000	VGD-8000	VGD-10000	
19" Rack-mount Model	VGD-6000-RM	VGD-8000-RM	VGD-10000-RM	
Capacity	6000VA	8000VA	10000VA	
	4900W	5600W	7000W	
208V/220V/230V/240V				
Input	Load Capacity	Voltage/Range (V)		
	Voltage	0 – 40%	120-139	
		0 – 70%	140-159	
		0 – 100%	180-276	
	Frequency	50/60Hz (Auto Sensing)		
	Voltage (Battery)	(Selectable) 100V/110V/120V/127V <u>OR</u> 208V/220V/230V/240V ± 2%		
	Frequency (Battery)	50Hz OR 60Hz ± 0.5%		
	Overload Recovery	Auto transfer to UPS		
Output	High Efficiency Mode (AC – AC)	> 98%		
	Design Technology	On-line, fully digitised and microprocessor controlled		
	Output Waveform	Pure sine wave		
	Total Harmonic Distortion	< 3% THD for linear load		
	Crest Factor	3:1		
		Surge Protection	IEEE C61000-4-5 level 3	
Protection	Overload Protection	UPS auto power off if overload > 125% for 60sec / > 150% for 10sec		
	Transfer Time	0ms		
	Short Circuit	Output cut off immediately OR input fuse/circuit breaker protection		
Battery	Type	Hot swappable, sealed, maintenance-free lead acid		
	Typical Recharge Time	4 Hours (to 90% of full capacity)		
	DC Voltage (Tower)	240V/12V 7.2Ah x 20	240V/12V 7.2Ah x 20	240V/12V 9Ah x 20
	Protection	Cut off without draining current when battery is low		
	Cold Start (DCPoweron)	YES		
Battery	Back-up Time	7 Minutes Full Load 15 Minutes Half Load		
	Management	Self-test, adjustable battery points and alarm settings		

	Input Inlet	Hardwire			
	Receptacles	Hardwire			
Physical	Dimensions	Tower	257 x 590 x 570 mm	257 x 690 x 715 mm	257 x 690 x 715 mm
		W x D x H	10.1" x 23.2" x 22.4"	10.1" x 27.2" x 28.1"	10.1" x 27.2" x 28.1"
		Tower with ISO	257 x 590 x 700 mm	342 x 690 x 715 mm	342 x 690 x 715 mm
		W x D x H	10.1" x 23.2" x 27.6"	13.4" x 27.1" x 28.1"	13.4" x 27.1" x 28.1"
		19" RM	428 x 558 x 130 mm	NONE	
		W x D x H	16.9" x 22.0" x 5.1"	NONE	
Physical	Net Weight	Tower	86Kg (189.2lb)	112Kg (246.4lb)	112Kg (246.4lb)
		Tower + ISO	123Kg (270.6lb)	178Kg (391.6lb)	180Kg (396lb)
		19" RM	20Kg (44lb) power module 66Kg (145lb) battery module	NONE	
Physical	Shipping Weight	Tower	106.0 (233.2)	139.0 (305.8)	139.0 (305.8)
		Tower + ISO	145 (319)	210 (462)	201.5 (443.3)
		19" RM	24 (52.8) power module 70 (154.0) battery module	NONE	
USB		YES			
RS232		YES			
System & Alarm	Visual display (LED)	UPS on -GREEN, line mode -GREEN, battery mode -YELLOW, bypass -YELLOW, Fault -RED			
	Visual display (LCD)	Input/output voltage, input/output frequency, on-line mode, back-up mode, battery capacity & load level			
	Battery Back-up	Beeps every 5 seconds			
	UPS Fault	Continuous beeping and warning on LCD display			
Environment	Ambient Temperature	0 – 40°C (32 – 104°F)			
	Humidity	0 – 95% humidity non-condensing			
	Altitude	3,500 metres max. elevation			
	Audible Noise	< 55dBA (1 metre from surface)			
	Storage Condition	-20 – 50°C (-4 – 122°F)			
Conformance	Safety	UL 1778, CE			
	EMC (EMS/EMI)	IEC 61000-4, FCC Part 15, CISPR 22			
	Warranty	2 Years (Policy dependant on region)			