

Vanguard UPS 2kVA – 3kVA

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-2000/RM	2000VA
VGD-3000/RM	1400W



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-2000	VGD-3000	
19" Rack-mount Model		VGD-2000-RM	VGD-3000-RM	
Capacity		2000VA	3000VA	
		1400W	2100W	
Input	Voltage	Voltage (V)	100/110/115/120/127	208/220/230/240
		Load Capacity	Voltage/Range (V)	Voltage/Range (V)
		0 – 40%	60-69	120-139
		0 – 70%	70-79	140-159
		0 – 100%	80-144	160-276
Frequency		50/60Hz (Auto Sensing)		
Voltage (Battery)		(Selectable output voltage) 100V/110V/120V/127V OR 208V/220V/230V/240V ± 2%		
Output	Frequency (Battery)	50Hz OR 60Hz ± 0.5%		
	Overload Recovery	Auto transfer to UPS		
	High Efficiency Mode	> 95% (AC to AC)		
	UPS Green Mode	Energy saving function (No load Shutdown)		
	Output Waveform	Pure sine wave		
	Harmonic Distortion	< 3% THD for linear load		
	Crest Factor	3:1		
Protection & Filtering	Surge Protection	120V (IEEE c62.41) 230V (IEEE C61000-4-5 level 3)		
	Overload Protection	Auto power off if overload: > 125% for 60sec > 150% for 10sec		
	Transfer Time	0ms		
	Short Circuit	UPS output cut off immediately OR input fuse protection		
Battery	Type	Hot swappable, sealed, maintenance-free lead acid		
	Typical Recharge Time	4 Hours (to 90% of full capacity)		
	DC Voltage (Tower)	72V/12V 7.2Ah x 6	72V/12V 9ah x 6	
	DC Voltage (2U)	72V/12V 7.2Ah x 6	72V/12V 9Ah x 6	
	Protection	Cut off without draining current when battery is low		

Battery	Cold Start (DC Power on)		YES	
	Back-up Time	Tower	7 Minutes	6 Minutes
		Full Load	7 Minutes	6 Minutes
		Half Load	15 Minutes	15 Minutes
	Management	Self-test, adjustable battery points and alarm settings		
Physical	Input Inlet		NEMA 5-15 (120V) / IEC 320 (230V)	
	Receptacles		NEMA 5-15 (120V) / IEC 320 (230V)	
	Total Receptacles		(UPS + Surge) 12 (120V) / (Surge Only) 8 (230V)	
	Dimensions W x D x H	Tower	225 x 425 x 360 mm	
			8.9" x 16.7" x 14.2"	
	19" RM	428 x 635 x 84 mm		
		16.9" x 25.0" x 3.3"		
	Net Weight Kg (lbs.) (Tower Model)		31.6Kg (68.4lb)	32.5Kg (71.5lb)
	Shipping Weight		33.6Kg (73.9lb)	35.5Kg (71.5lb)
	USB		YES	
RS232		YES		
Display & Alarm	Visual display (LED Model)	UPS on -GREEN, line mode -GREEN, battery mode -YELLOW, bypass -YELLOW, Fault -RED		
	Visual display (LCD Model)	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 Operation		0 – 40°C (32 – 104°F)	
	Humidity		0 – 95% non-condensing	
	Altitude		3,500 metres maximum elevation	
	Audible Noise		< 40dBA (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)	