

Vanguard UPS 700VA – 1.5kVA

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-700/RM	700VA 490W
VGD-1000/ RM	1000VA 700W
VGD-1500/RM	1500VA 1050W



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-700	VGD-1000	VGD-1500
19" Rack-mount Model		VGD-700-RM	VGD-1000-RM	VGD-1500-RM
	Capacity	700VA	1000VA	1500VA
		490W	700W	1050W
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%		
	Frequency (Battery)	50Hz OR 60Hz ± 0.5%		
	Overload Recovery	Auto transfer to UPS		
	High Efficiency Mode	> 95% (AC to AC)		
	UPS 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		
Protection & Filtering	Surge Protection	120 V (IEEE C62.41) / 230V (IEEE C61000-4-5 level 3)		
	Overload Protection	UPS auto power off if overload exceeds 125% for 60sec OR 150% for 10sec		
	Transfer Time	0ms		
	Short Circuit	UPS output cut off immediately OR input fuse protection		
	Type	Hot swappable, sealed, maintenance-free lead acid		
	Typical Recharge Time	4 Hours (to 90% of full capacity)		
Battery	DC Voltage (Tower)	24V/12V 7.2Ah x 2	36V/12V 7.2Ah x 3	36V/12V 9Ah x 3
	DC Voltage (1U)	24V/6V 7.2Ah x 4		NONE
	DC Voltage (2U)	24V/12V 7.2Ah x 2	36V/12V 7.2Ah x 3	36V/12V 9Ah x 3
	Protection	Cut off without draining current when battery is low		

Cold Start (DC Power on)		YES		
Battery	Back-up Time	Tower	7 Minutes	
		Full Load	7 Minutes	
		Half Load	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) 120V / (Surge Only) 4(230V)		
	Dimensions	Tower	155 x 410 x 238 mm	
		W x D x H	6.1" x 16.1" x 9.4"	
		19" Rack-mount	2U	428 x 425 x 84 mm
	W x D x H	1U	428 x 525 x 44 mm	NONE
	Net Weight	13.5Kg (29.7lb)	16.2Kg (35.6lb)	17Kg (37.4lb)
	Shipping Weight	15.5Kg (34.1lb)	18.2Kg (40lb)	19Kg (41.8lb)
	USB Interface	YES		
RS232 Interface	YES			
Display & 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 Operation	0 – 40°C (32 – 104°F)		
	Humidity	0 – 95% non-condensing		
	Altitude	3,500 metres max. 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)		