

## Vanguard UPS 700-1500VA

Tower Model (With LCD Display)		VGD-700	VGD-1000	VGD-1500	
19" Rack-Mount Model		VGD-700 -RM	VGD-1000-RM	VGD-1500-RM	
INPUT	Capacity (VA)	700VA	1000VA	1500VA	
	Capacity (W)	490W	700W	1050W	
	Voltage	100V/110V/115V/120V/127V		208V/220V/230V/240V	
		Voltage/Range	Load Capacity	Voltage/Range	Load Capacity
60 ~ 69V		0 ~ 40%	120 ~ 139V	0 ~ 40%	
70 ~ 79V		0 ~ 70%	140 ~ 159V	0 ~ 70%	
80 ~ 144V	0 ~ 100%	160 ~ 276V	0 ~ 100%		
Frequency	50 / 60 Hz Auto Sensing				
OUTPUT	Voltage (on battery)	100V, 110V, 120V, 127V or 208V, 220V, 230V, 240V +/-2% (Selectable Output Voltage)			
	Frequency (on battery)	50 / 60 Hz +/-0.5%			
	Transfer Time	0 ms			
	Overload Recovery	Auto transfer to UPS			
	High Efficiency Mode (AC to AC)	> 95 %			
	UPS Green Mode	Energy saving function (No Load Shutdown)			
	UPS Design Technology	On-Line / Fully digitized microprocessor controlled			
	Output Wave Form	Sinewave			
	Harmonic Distortion	< 3% of T.H.D. at linear load			
PROTECTION & FILTERING	Surge Protection	120V (IEEE C62.41) / 230V (IEECC61000-4-5 level 3)			
	Overload Protection	125% for 1 minute and 150% for 10 seconds			
	Short Circuit	UPS output cut off immediately or input fuse protection			
SYSTEM DISPLAY / WARNING	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			
	Audible Alarm (Battery Back-Up)	Beep every 5 sec			
	UPS Fault	Continuous beeping sound and LCD display			
	Communication	RS-232 Serial Port and USB			
BATTERY	Type	Sealed, maintenance-free lead acid batteries			
	DC Voltage (V) Battery (Tower )	24V / 12V7.2AH x 2	36V / 12V7.2AH x 3	36V / 12V9AH x 3	
	DC Voltage (V) Battery (1U)	24V / 6V7.2AH x 4		None	
	DC Voltage (V) Battery (2U)	24V / 12V7.2AH x 2	36V / 12V7.2AH x 3	36V / 12V9AH x 3	
	Typical Recharge Time to 90% Full	4 hours			
	Management	Self-test, adjustable battery transfer points and alarm settings			
	Battery Protection	Cut off without draining any current when battery is low			
	Cold Start (DC Start)	YES			
	Back Up Time (Tower Model)	7 min			
	Back Up Time (Full Load)	2U* = 7 min, 1U = 7 min	2U* = 7 min, 1U = 4 min	6 min	
Back Up Time (Half Load)	2U* = 15 min, 1U = 15 min	2U* = 15 min, 1U = 10 min	15 min		
PHYSICAL	Input Inlet	NEMA 5-15 (120V) / IEC 320 (230V)			
	Receptacles	NEMA 5-15 (120V) / IEC 320 (230V)			
	Total Receptacles (UPS+Surge / Surge Only)	6 (120V), 4 (230V)			
	Tower Dimensions Inches mm (inch) W x D x H	155 x 410 x 238 (6.0" x 16.5" x 9.4")			
	19" Rack-Mount Dimensions mm (inch)	428 x 525 x 44 (16.9" x 20.7" x 1.7") 1U		None	
	428 x 425 x 84 (16.9" x 16.7" x 3.3") 2U				

	Net Weight kg (lb) Tower model	13.5 (29.7)	16.2 (35.6)	17.0 (37.4)
	Shipping Weight kg (lb) Tower Model	15.5 (34.1)	18.2 (40.0)	19.0 (41.8)
ENVIRONMENT	Operating Temperature	0 - 40 deg C / 32 ~ 104 deg F		
	Storage Temperature	-20 ~ 50 deg C / -4 ~ 122 deg F		
	Altitude	3,500 meters max		
	Audible Noise (1 meter from surface)	< 40 dBA		
	Relative Humidity	0 ~ 95% humidity, non-condensing		
CONFORMANCE	Safety	UL 1778, CE		
	EMC (EMS / EMI)	IEC 61000-4, FCC Part 15, CISPR 22		
	Warranty	2 years		
	Warranty policy	Warranty policy may vary depends on region		