

VANGUARD RACK MOUNT

Specification of 19" Rack-mount model



		VGD-700-RM	VGD-1000-RM	VGD-1500-RM	VGD-2000-RM	VGD-3000-RM	VGD-5000-RM	VGD-6000-RM	
CAPACITY	Capacity (VA)	700VA	1000VA	1500VA	2000VA	3000VA	5000VA	6000VA	
	Capacity (W)	490W	700W	1050W	1400W	2100W	3500W	4200W	
INPUT	Voltage / Load	208V, 220V, 230V, 240V							
		Voltage/Range			Load Capacity				
		120-139V			0-40%				
		140-159V			0-70%				
	160-276V			0-100%					
Frequency & PF		50-60 Hz Auto Sensing, Input PF > 0.98							
OUTPUT	Voltage (on battery)	208V, 220V, 230V, 240V ± 2% (selectable Output Voltage)							
	Frequency (on battery)	50 / 60 Hz ± 0.5%							
	Transfer Time	0ms							
	Overload Recovery	Auto transfer to UPS							
	High Efficiency mode (AC to AC)	> 95%							
	UPS Design Technology	On-line / Fully digitized microprocessor controlled, IGBT design							
	Output Wave Form	Pure Sinewave							
	Harmonic distortion	< 3% of T.H.D. at linear load							
	Crest Factor	3 : 1							
PROTECTION AND FILTERING	Surge Protection	230V (IEEE61000-4-5 level 3)							
	Overload Protection	125% for 1 minutes and 150% for 10 seconds							
		UPS output cut off immediately or input fuse / circuit breaker 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 Volt. (V) Battery (1U)	24V / 6V7, 2AH x 4				None			
	DC Volt. (V) Battery (2U)	24V / 12V7, 2AH x 2	36V / 12V7-2AH x 3	36V / 12V9AH x 3	48V / 12V7 - 2AH x 4	48V / 12V9AH x 4	None		
	DC Volt. (V) Battery (6U)	None					240V / 12V7.2AH x 20		
	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 (Full load)	2U* = 7 min, 1U = 7 min	2U* = 7 min, 1U = 4 min	6 min	7 min	6 min	9 min	7 min	
	Back up Time (Half Load)	2U* = 15 min, 1U = 15 min	2U* = 15 min, 1U = 10 min	15 min	15 min	27 min	20 min		
PHYSICAL	Input Inlet	IEC 320 (230V)							
	Receptacles	IEC 320 (230V)							
	Total Receptacles (UPS + Surge / Surge Only)	4 (230V)			4 (230V)			Hardwire	
	19" rack-mount Dimensions Inches mm (inch) W x D x H	428 x 525 x 44 (16.9" x 26.7" x 1.7") 1U		None			428x597x130 (Power Module) (16.9" x 23.5" x 5.1") 3U		
		428 x 425 x 84 (16.9" x 16.7" x 3.3") 2U		428 x 635 x 84 (16.9" x 25.0" x 3.3") 2U			428x597x130 (Battery Module) (16.9" x 23.5" x 5.1")		
	Net Weight Kgs 19" rack-mount	1U = 15.0 2U = 15.4	1U = 15.0 2U = 18.7	19.1	33.6	34.3	20.0 (power module) 66.0 (battery module)		
	Shipping Weight Kgs 19" rack-mount	1U = 17.7 2U = 17.9	1U = 17.7 2U = 21.6	21.7	36.7	38.3	24.0 (power module) 75.5 (battery module)		
	Environment	Operating Temperature	0 - 40°C / 32 - 104°F						
		Storage Temperature	-20 - 50°C / -4 - 122°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	1 year*							