

## Vanguard UPS 6kVA-10kVA

Tower Model (With LCD Display)		VDG-6000	VDG-8000	VDG-10000	
19" Rack-Mount Model		VDG-6000 -RM	Not Available	Not Available	
INPUT	Capacity (VA)	6000VA	8000VA	10000VA	
	Capacity (W)	4200W	5600W	7000W	
	Voltage	208V/220V/230V/240V			
		Voltage / Range	Load Capacity	Voltage / Range	Load Capacity
120 ~ 139V		0 ~ 40%	180 ~ 276V	0~100%	
140 ~ 159V	0 ~ 70%				
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)	> 98 %			
	UPS Design Technology	On-Line / Fully digitized microprocessor controlled			
	Output Wave Form	Sinewave			
	Harmonic Distortion	< 3% of T.H.D. at linear load			
Crest Factor	3 : 1				
PROTECTION & FILTERING	Surge Protection	IEEE61000-4-5 Level 3			
	Overload Protection	125% for 1 minute and 150% for 10 seconds			
	Short Circuit Protection	UPS output cut off immediately or input fuse / circuit breakerprotection			
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 )	240V / 12V7.2AH x 20	240V / 12V7.2AH x 20	240V / 12V9AH 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 (Tower Model)	7 mins Full load / 15mins Half Load			
PHYSICAL	Input Inlet	Hardwire			
	Receptacles	Hardwire			
	Tower Dimensions W/O ISO mm (inch) WxDxH	257 x 590 x 570 (10.1"x23.2"x22.4")	257 x 690 x 715 (10.1"x27.2"x28.1")	257 x 690 x 715 (10.1"x27.2"x28.1")	
	Net Weight kg (lb) Tower w/o ISO	86.0 Kg (189.2)	112 Kg (246.4)	112 Kg (246.4)	
	Shipping Weight kg (lb) Tower w/o ISO	106.0 Kg (233.2)	139.0 Kg (305.8)	139.0 Kg (305.8)	
	Tower Dimensions With ISO mm (inch) WxDxH	257 x 590 x 700 (10.1"x23.2"x27.6")	342 x 690 x 715 (13.4"x27.1"x28.1")	342 x 690 x 715 (13.4"x27.1"x28.1")	
	Net Weight kg (lb) Tower with ISO	123 Kg (270.6)	178 Kg (391.6)	180 Kg (396)	
	Shipping Weight Tower with ISO	145 Kg (319)	210 Kg (462)	201.5Kg (443.3)	

	19" Rack-Mount W x D x H	428 x 558 x 130 (3U) (16.9" x 22.0" x 5.1")	None	None
	Net Weight (LB) 19" RM	20(44.0) Power Module 66(145.2) Battery Module	None	None
	Shipping Weight(lb) 19" RM	24(52.8) Power Module 70(154.0) Battery Module	None	None
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)	< 55 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		