

VANGUARD3 PHASE IN 1PHASE OUT

Specification of Tower Model (with LCD display)



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		VGD-8K31	VGD-10K31	VGD-12K31	VGD-15K31	VGD-20K31
CAPACITY	Capacity (VA)	8000VA	10000VA	120000VA	15000VA	20000VA
	Capacity (W)	5600W	7000W	8400W	10500W	14000W
INPUT	Voltage / Load	208 / 360V, 220 / 380V, 230 / 400V, 240 / 415V (3Ø5W)				
		Load Capacity		Voltage / Range		
		208-241V		0-25%		
		242-276V		0-40%		
	277-311V		0-75%			
312-478V		0-100%				
Frequency & PFC		50 / 60 Hz Auto Sensing, PF > 0.98				
OUTPUT	Voltage (on battery)	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	> 97% (AC to AC)				
	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 AND FILTERING	Surge Protection	IEC61000-4-5 level 3				
	Overload Protection	125% for 1 minutes and 150% for 10 seconds				
		130% for 10 seconds and 150% for 1.5 seconds (On-battery)				
Short Circuit Protection	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	Beep every 5 sec (Battery back-up)				
	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)	240V	240V	240V	240V	240V
	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)	Depends on internal battery					
PHYSICAL	Input Inlet	Hardware				
	Receptacles	Hardware				
	Tower Dimensions - mm	257 x 600 x 715		342 x 690 x 875		342 x 863 x 905
	Inches (W x D x H W/O ISOTR)	10.1" x 27.2" x 28.1"		13.5" x 27.2" x 34.6"		13.5" x 34.0" x 35.0"
	Net Wt. Kgs W/O ISOTR	80.0		176.5		175.0
	Shipping Wt. Kgs W/O ISOTR	101.5		206.5		196.0
	Tower Dimensions - mm	342 x 690 x 715		342 x 690 x 878		342 x 863 x 905
	Inches (W x D x H W/ ISOTR)	13.4" x 27.2" x 28.1"		13.5" x 27.2" x 34.6"		13.5" x 34.0" x 35.6"
	Net Wt. Kgs W/ ISOTR	130.0		176.5		225.0
Shipping Wt. Kgs W/ ISOTR	151.5		206.5		246.5	
Environment	Operating Temperature	0 - 40°C / 32 - 104°F				
	Storage Temperature	-20 ~ 50°C / -4 ~ 122°F				
	Altitude	3,500 meters max				
	Audible Noise	< 55 dBA (1 meter from surface)				
Relative Humidity	0 ~ 95% humidity, non-conditioning					
CONFORMANCE	Safety	UL 1778, CE				
	EMC (EMS / EMI)	IEC 61000-4, FCC Part 15, CISPR 22				
	Warranty	1 year*				