

VANGUARD 31 Series

Particular Three phase in- Single phase out for specific application.

- On-Line UPS Design
- Pure Sinewave Output
- High Efficiency Mode
- Tower Type Design
- Three Phase Input, Single Phase output
- Advance Battery Management (ABM)
- Simple and Clear LCD Indicator (Option)
- Overload, Surge, Short Circuit Protection
- Design for Advance Missional Electronic Device



VGD-8000-20K 31

Specifications

Model	VGD-8000 31	VGD-10K 31	VGD-12K 31	VGD-15K 31	VGD-20K 31
Configuration					
Capacity (VA)	8000 VA	10 KVA	12 KVA	15 KVA	20 KVA
Capacity (Watts)	5600 W	7000 W	8400 W	10500 W	14 KW
Form	Tower Type				
Phase	Input: Three Phase , Output: Single Phase				
Energy Saving	Yes - ECO Mode Efficiency >94%				
Input					
Voltage	208/360VAC, 220/380VAC, 230/400VAC, 240/415 VAC (3Ø 5W)				
Input Voltage Range	208 - 478 VAC < 25% Load 243 - 478 VAC < 50 % Load 277 - 478 VAC < 75% Load 312 - 478 VAC < 100% Load				
Input Frequency Range	50 / 60 Hz (Auto Sensing)				
Input Power Factor	> 0.9				
Cold Start	Yes				
Output					
Rated Power Factor	0.7				
Waveform	Pure Sine Wave				
Voltage	208* / 220 / 230 / 240 Vac ± 2%				
Frequency	50 / 60 Hz ±0.5 %				
Transfer Time	0 ms				
Harmonic Distortion	≤ 3% THD at Linear Load		≤ 5% THD at Linear Load		
Crest Factor	3 : 1				
EPO Function	Yes				
Protection					
Overload	Line Mode	110% - 125% for 60 seconds			
	Battery Mode	> 110% for 10 seconds			
Surge Protection	IEC 61000-4-5 Level 3				
Bypass	Internal Bypass (Automatic and Manual)				
Short Circuit Protection	UPS Output Cut Off Immediately				
Battery					
Type	12V 7Ah	12V 9Ah	12V 7Ah	12V 9Ah	12V 9Ah
Quantity	20	20	20 x 2 set	20 x 2 set	20 x 2 set
Sealed, Maintenance Free	Yes				
Typical Recharge Time	4 hr to 90%				
External Battery Module	Option				
External Battery Connector	Option				
Management & Communication					
Indicator	LCD Control Panel				
Communication Port	RS 232, USB B type				
Audible Alarms	Yes				
SNMP Slot	Option				
Physical					
Dimensions (WxDxH) (mm)	257 x 687 x 715		342 x 687 x 905		342 x 757 x 905
Weight (kgs)	112		190		207
Shipping Dimensions (mm)	415 x 860 x 930		500 x 860 x 972		500 x 930 x 1135
Shipping Weight (kgs)	139		210.7		22.5

* While 208V output, capacity will be derated to 90%.
 ** Specifications are subject to change without further notice.
 ** Specifications are for reference, actual information should be based on real product.