

VANGUARD II

Powercom is proud to present the true online topology uninterruptible power supply, the Vanguard II series. Designed in both tower form (models named as "VGS") and rack mount-tower form (models named as "VRT"), the Vanguard II series provides continuous sine-wave power with its peak power factor of 0.9, double conversion technology, and high frequency design. With its market leading performance, the Vanguard II series is the ideal power solution for network server rooms, cloud execution and storage systems, telecommunication centers, sensitive and critical electronic systems, or any system requiring high capacity and stable power supply.

- Double conversion online topology with 0.9 power factor.
- Pure sine-wave output with less than 3% of THD.
- Energy-saving functions with high-efficiency mode, free-run mode, etc.
- Complete protections on short circuit, overload, surge and lightning, telecom ports, etc.
- Reliable design with Advanced Battery Management and Adjustable Cooling System.
- Multiple communication and remote monitoring via RS-232, USB, SNMP, etc.



Tower model - VGS 6K

MODEL		VGS-6000	VGS-10000
CAPACITY		6000VA	10000VA
		5400W	9000W
INPUT	Voltage	220V / 230V / 240V 120V to 139V under 25% load, 140V to 159V under 50% load, 160V to 179V under 75% load, 180V to 276V with 100% load	
	Frequency	50Hz / 60Hz ± 2.5 Hz auto sensing (45Hz to 65Hz user selectable)	
	Power factor	> 0.97	
OUTPUT	Voltage	220V / 230V / 240V $\pm 2\%$ (selectable output voltage)	
	Frequency	50Hz / 60Hz $\pm 0.25\%$	
	Waveform	Pure sine wave	
	Phase	Single phase	
	Harmonic distortion	< 3% of T.H.D. at linear load	
	Efficiency	Approximately 89%	
	Type of outlets	Standard IEC outlets. Customized outlet can be discussed.	
PROTECTION	Overload protection	UPS automatic power off if overload exceeds 106% to 120% of nominal at 30 seconds; 121% to 150% for 10 seconds	
	Short circuit protection	UPS output cut off immediately or protected by input fuse or circuit breaker	
	Tele-communication	RJ45 x 2	
	Alarm	Buzzer beeps under backup mode, battery low, battery charging fault, and overload	
BATTERY	Type	Sealed, maintenance-free lead acid battery	
	Typical recharge time	4 hours to 90%	
	Battery quantity	12V 7Ah x20	12V 9Ah x20
	Backup time (100% load)	4 to 6 minutes	3 to 4 minutes
	Protection	Battery low cut-off without draining any current	
GENERAL	Dimension (W x D x H)	257mm x 590mm x 570mm	257.4mm x 690mm x 585mm
	Product weight	86 kg (189.2 lb)	96.5 kg (212.6 lb)
	Display (LED/LCD)	LED - line mode (green), bypass / battery mode (yellow), fault (red) LCD - input / output voltage and frequency, on-line mode, backup mode, battery capacity, load level	
	Communication interface	Standard - RS-232, USB B-type, and SNMP	
	Audible noise	<60dBA (1m from surface)	
	Ambient temperature	+0 °C to +40 °C	
	Storage temperature	-15 °C to +50 °C	
	Altitude	2000 meters max	
	Humidity	0-95%, non-condensing	

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