

VANGUARD-33 SERIES

Vanguard-33 Series gives a continuous power supply independent from the input energy. It is the best solution for enterprises and file-methodology with centralized protection and is able to store the data with high security and protect the system.

- ¥ On-Line, double conversion operating, AC/DC-DC/AC with the possibility to connect it in parallel.
- ¥ Advanced PWM inverter technology, with operating frequency at 10kHz.
- ¥ Digital control by microprocessor
- ¥ RS-232/485 communication ports and automatic closing files
- ¥ SNMP (TCP/IP) environment
- ¥ Advanced battery management (ABM)
- ¥ Permissible overload: 125% for 10 minutes, 150% for 1 minute.
- ¥ EMI/RFI filter incorporated.
- ¥ Use of IGBT transistors at inverter and automatic data logger for events and alarms.
- ¥ Independent phase regulation
- ¥ Static and maintenance bypass as standard at all models.
- ¥ Redundant and parallel versions
- ¥ User's interface by LCD panel, set at 2 languages



Complete Power Solution™

ISO 9001 Certified Company

SPECIFICATION

Model Name	VGD-10K33	VGD-15K33	VGD-20K33	VGD-30K33	VGD-40K33	VGD-50K33	VGD-60K33	VGD-80K33	
Capacity	10KVA	15KVA	20KVA	30KVA	40KVA	50KVA	60KVA	80KVA	
Rating Power	8KW	12KW	16KW	24KW	32KW	40KW	48KW	64KW	
Power Factor	0.8								
Technology	On-line, double conversion, multiprocessor control								
Input	Voltage	220V / 380V, 230V / 400V, 240 / 415V (3 Phase 4 wire)							
	Input range	+/- 15%							
	Frequency	50Hz / 60Hz +/- 5%							
	Recifier-charger	With soft start							
	PFC	PF > 0.97							
Output	Voltage	220V / 380V, 230V / 400V, 240 / 415V (3 Phase 4 wire)							
	Accuracy	+/- 1% at steady state. +/- 2% at dynamic state (load fluctuations 100% ~ 0% ~ 100%)							
	Frequency	50/60Hz synchronized +/-4% free running +/-0.05%							
	Slew rate	+/- 1Hz/s							
	Waveform	Sine-wave							
	Efficiency	90% to 92%							
	Total Harmonic Distortion	< 3%							
	Phase displacement	120° +/-1% (balanced load) 120° +/-2% (imbalances 50% of the load)							
	Dynamic recovery time	10 ms, at 98% of the state value							
	Admissible overload	125% (10'), 150%(1')							
	Admissible crest factor	3 : 1							
	Imbalance output voltage with load 100% unbalanced	< 2%							
	Static Bypass	Type and activation criteria	Solid state						
		Voltage	220V / 380V, 230V / 400V, 240 / 415V (3 Phase 4 wire)						
		Frequency	50 or 60Hz						
Activation criterion		Microprocessor control							
Transfer time		Nil							
Admissible overload		400% for 10s Short circuit for 40ms							
Passage to Bypass		Immediate, for overloads of over 160%							
Maunal Bypass	Type	Without interruption							
	Voltage	220V / 380V, 230V / 400V, 240 / 415V (3 Phase 4 wire)							
	Frequency	50 or 60Hz							
Batteries	With batteries	YES							
	Battery test	YES, programmable							
Communication	Rs-232/485 ports as standard and AS-400								
Charger	Technology	PWM							
	Charging current	0.2C							
	Float voltage	13.6V							
	Recharging time	From the end of back-up time to 80% of the total charge 3 to 4 hours depending on the power of the device (depending on type of batteries)							
Environment	Noise level	<60 dBA (at 1m. distance and 100% load)							
	Operating temperature	From 0° to 40°C							
	Protection UNE 2032478IR	IP20							
	Electromagnetic compatibility	EN50091-2							
	Safety	EN-50091-1, EN-60950							
	Marking	CE							
	Quality	ISO-9001							
	Connection	By input / output terminals							
	Dielectric rigidity	2,500V AC for 1 min.							
	Ventilation	Forced							
	Humidity	Up to 95% without condensation							
	Maximum working height	2,400 M s.n.m							
	Dimension D x W x H (mm)	755 x 600 x 1255 mm						1000 x 700 x 1480 mm	
	Weight (kg)	200	250	310	400	520	650	770	TBD



Available Through: