

# VANGUARD 1-3KVA - DATA SHEET

Model		VGD 1000	VGD 1500	VGD 2000	VGD 3000	
Capacity (VA/W)		1000/700	1500/1050	2000/1400	3000/2100	
INPUT	Technology	On Line Double Conversion				
	Nominal Voltage (Vac)	208 - 220 - 230 - 240 (from 120 to 276 depending on load level)				
	Frequency (Hz)	50 - 60 auto sensing, $\pm 2\% \pm 5\% \pm 7\%$ selectable + "free run mode" for operation with GE on input				
	Neutral/Phase Verification	Interactive on LCD Display				
	Input Power Factor	$\geq 0,97$				
Connections	IEC 10 A socket and IEC 10 A / schuko cable			IEC 16 A socket and IEC 16 A / schuko cable		
Nominal Voltage	208 - 220 - 230 - 240 $\pm 2\%$ selectable					
OUTPUT	Waveform	Sinewave				
	Frequency (Hz)	50 - 60 $\pm 0,5$ Hz selectable				
	Manual By Pass	Yes, activation through LCD				
	On Line/High Efficiency Yield	90,7% / > 95%		89,8% / > 95%		
	Harmonic Distortion	< 2% THD with linear load				
Crest Factor	3:1					
Connections	2 + 2 x IEC 10 A programmable		4 + 4 x IEC 10 A programmable, 1 x IEC 16 A			
Type	Sealed, maintenance-free lead acid battery					
Recharge Time (90%)	4 hours (battery charger adjustable with additional Battery Packs)					
Cold Start & Soft Start	Yes					
Autonomy (70% with cosphi 0,7)	11'	9'	11'	9'		
Hot Swap	Yes, from front panel					
Autonomy Expansion	Yes, Battery Pack connector (see Autonomy Configurator on our website)					
Protections	Test and deep battery discharge					
STANDARD PROTECTION	Overload	Up to 125% for 1' Up to 150% for 10"				
	Short Circuit	With Fuse/Circuit breaker				
	LAN Protection	2 x RJ45 (10 base T)				
	Safety Compliance / EMC	EN 62040-1 EN 62040-2				
	LOW Voltage / EMC	2006/95/CE - 2004/108/CE				
Classifications	VFI - XX - 112 according to EN 62040 - 3					
Display	LCD interactive display (voltage/frequency in/out, load level, temperature, output power VA / W, output current, autonomy left, battery voltage)					
INTERFACE	Languages	IT, ENG, DE, FR, ES				
	Serial Communication	RS232, dry contacts and USB type B (when in use it disables the RS232)				
	Software	CD included and available on the website				
	EPO	Yes, Emergency Power Off "NC"				
	Smart Slot	SNMP, contact board & AS400, RS485				
ON/OFF Options	Port for programmable remote ON/OFF contact (NO/NC)					
GENERAL	Temperature	0°C $\div$ +40°C (working) -20°C $\div$ +50°C (storage)				
	Humidity	95% non-condensing				
	Noise (dBA @ 1mt)	< 45		< 50		
	Dimension (W x D x H) (mm)	152 x 420 x 238		225 x 425 x 360		
	Net/Gross Weight (kg)	16,2 / 17,7	17 / 18,5	28 / 30	33 / 35	

\*Last Update: 23/02/2016