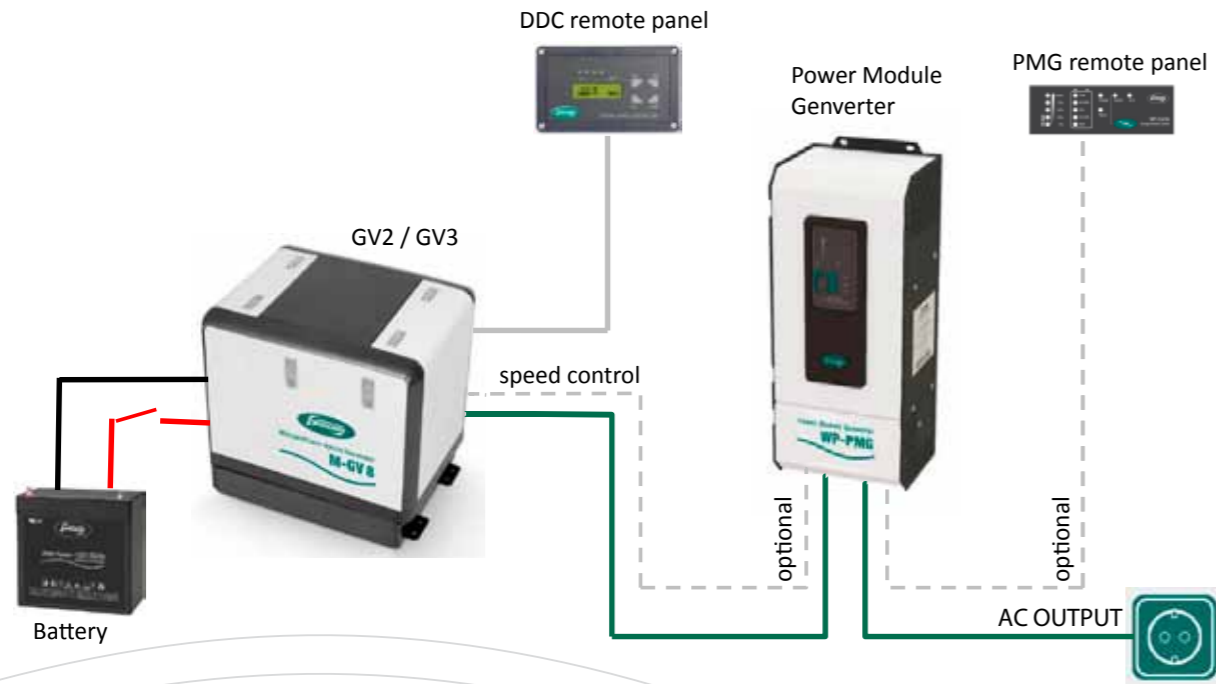




green energy solutions



M-GV 8 Genverter Marine

High power true sine wave current from your batteries

Marine • Mobile • Land-based



Datasheet



M-GV 8 Genverter Marine

- Excellent choice to replace traditional gensets
- 8 kW continuous 230 V power from your variable speed generator system
- High efficiency and strong peak power
- Outstanding voltage stability
- Saving fuel and ensuring smooth running of your genset
- Genverter Power, the best choice for your genset
- Heavy-duty, but light-weight, thanks to modern switch-mode concept



green energy solutions



M-GV 8 Genverter Marine	
Article no.	??
GENERAL SPECIFICATIONS	
Output voltage	200 .. 240V AC (nominal 230 V AC)
Output frequency	45 .. 65Hz (nominal 50/60Hz)
Frequency stability	< 1%
Output power, continuous	8kW
Output power, peak (2000msec)	12kW
Peak efficiency	97% peak
Nominal efficiency	95% @full load
Voltage THD (Total Harmonic Distortion)	< 3%



M-GV 8 Basic 2 Cylinder	
Article no.	41005005
GENERAL SPECIFICATIONS	
Output voltage	230 V, 50Hz, 1-Phase
Output power, continuous	8kVA / 6kW
Output power, peak (2000msec)	12kW
Low rpm setpoint	1800rpm
Nominal rpm setpoint	2200 .. 2800rpm
Max. rpm setpoint	3200rpm
Dimension (h x w x l)	650 x 545 x 600mm
Dimension mounting (h x w)	340 x 618mm
Dry weight excl. sound shield	124kg
Dry weight incl. sound shield	154kg
Sound level, 7 meter	54dBA
Sound level, 1 meter	65dBA



WP-PMG Power Module Genverter	
Article no.	60201408
GENERAL SPECIFICATIONS	
Input voltage	3 x 220 .. 350V AC
Input frequency	200 .. 400Hz
Max. input current	15A
Dimension (h x w x l)	451 x 200 x 174mm
Dimension mounting (h x w)	472 x 100mm
Dry weight	9.9kg



DDC Digital Diesel Control Panel	
Article no.	40209102
GENERAL SPECIFICATIONS	
Dimension (h x w x d)	85 x 140 x 55mm
Dimension mounting (h x w)	63 x 113mm
Dry weight	??kg

M-GV 8 Basic 2 Cylinder	
Article no.	41005005
ENGINE SPECIFICATIONS	
Engine	Kubota Z482-E3B
Emission Regulation	Tier 4, EPA
Performance intermittent SAE J1995	8,9kW @3600rpm 7,6kW @3000rpm
Performance continu 2°C ambient temperature	7,8kW @3600rpm 6,6kW @3000rpm
Number of cylinders	2
Displacement	0,479l
Bore & stroke	67 x 68mm
Air intake system	Naturally aspirated
Air consumption	0.95 m³/min
Fuel	Diesel fuel oil (astm no 2.D)
Fuel consumption full load	275 g/kw/h
Engine cooling	Indirect water cooled
Nominaal operation voltage	12V DC
Alternator	12.5A
Operation principle	Energize to run
Starter power requirement	0.8kW
Monitoring & control	WP-DCC Digital Diesel Control
PROTECTIONS	
Local remote operation	Local Start/Stop, Maintenance switch
Service interfall oil change	150hrs
Oil capacity	Approx. 2.5l

ALTERNATOR SPECIFICATIONS	
Type	Permanent Magnet Alternator PM
Model	HV/SAE5, Delta, 300V AC, 400Hz, 15A
Configuration	3-phase Star
Nominal power (torgue)	40Nm
Nominal efficiency	94%
Cooling	Indirect water cooling
Nominal coolant temperature	75 .. 80°C
Bearing, coupling	Single end bearing, flex plate
Rotor concept	Inner rotor type
Number of phases	3-phase
Insulation class	H
Max. allowed winding temperature	175°C

WP-PMG Power Module Genverter	
Article no.	60201408
CONNECTIONS	
Recommended cable cross input / protection fuse	4mm² / 32A
Recommended cable cross output / protection fuse	4mm² / 32A RCD
Remote panel connection	RJ12 twisted cable
Engine interface connection	Engine RPM request (pwm signal)
INPUT OUTPUT INTERFACE	
Local read out module	Inverter status load bar and voltage indicator
Remote panel (led)	Inverter status load bar and voltage indicator
USB	For software parameter configuration
Potential free Status contact	Inverter enabled / disabled
CONDITIONS	
Operating temperature	-20 .. 70°C (derating linearly above 40°C)
Storage temperature	-40 .. 80°C
Relative Humidity in operation /storage	Up to 95% without condensation
Ventilation	Forced cooling (variable speed, temperature and load dependent)
Ingress protection	IP23
LIFE EXPECTANCY	
Mean time between failure	10yrs
Lifetime condions	100,000hrs @nominal load @40°C

COMPLIANCE	
Directives: EMC 2004/108/EC, EMC 2004/104/EC (automotiv), LVD 2006/95/EC	
Standards: EN 55022 (emission), EN 61000-3-2 (harmonics), EN 61000-4-11, EN 61000-3-3 (voltage fluctuations), EN 61000-6-2 (immunity), EN 60950-1, EN 609335-1, EN 60335-2-29 (safety), EN 68-2-6 (vibration), EN 6094 (maritime navigation and radiocommunication), UL 458 (power converters / inverters)	

Benefits

Say goodbye to space consuming, noisy and energy inefficient diesel generators that operate around the clock; say hello to the next generation of intelligent power systems, available now. The WhisperPower Genverter is a state-of-the-art system using a very compact engine and highly efficient Permanent Magnet alternator to produce electric power.

Use the Genverter system to provide 'grid' power for your 230V appliances. The Genverter generator may produce output voltages up to 350 VAC with frequencies as high as 400 Hz; the WP-PMG Power Module's advanced power electronics will convert the Genverter output voltage into a stable sinusoidal 230 AC voltage at 50 Hz.

