Genverter 50 kW- Power System



Sailing Yachts • Motor yachts • Commercial craft • Back-up Power



- 0-50 kW output power rating

- 4 or 6 cyl. diesel engine by choice

diesel generator

- Fully watercooled PM technology
- 1000-3000 RPM range
- Extremely silent
- Ultra compact and light weight (400 kg)
- Fuel and maintenance costs reduction
- DC output for hybrid battery charging
- 400 VAC / 50 Hz output by 3-phase inverter
- 60 Hz also available











Hy-Gen Genverter GV50 variable speed generator

Main specifications (prel	miniary)
Nominal Power	50 kW at 3200 RPM
	20 kW at 1800 RPM
Rated Output voltage	up to 750 VDC
Product technology	variable speed, light weight high speed
	diesel generator with water cooled
	compact 3-phase permanent magnet
	flywheel integrated alternator
RPM window	1250-3200 RPM
Sound level	58 dBA at 1500 RPM at 7 m
Specifications diesel engi	ine
Engine model	M0114M38
Engine technology	4-stroke, turbo charged, intercooled,
	direct-injection, fresh water cooling,
	mono block, high speed combustion
	diesel engine
Output at Crankshaft	83 kW (114 HP) at 3200 rpm
Number of cylinders	4 inline
Injection system	two stage unit injectors,
	mechanically driven but electronic
	injection pressure controlled
	up to 2000 bar
Displacement	3200 cm ³ (195 cid)
Bore	85 mm (3.35')
Stroke	94 mm (3.7')
Compression ratio	17.0
Max. torque	255 Nm at 2500 RPM
Fuel consumtion	220 g/kWh
Exhaust emissions	EPA Tier II, RCD/2003/44
Ø Sea water inlet, outlet	25 mm (1"), 89 mm (3 ¹ / ₂ ")
Electrical system	12 VDC system plug in solution;
	14 VDC / 80 A Alternator;
	2 pole installation as standard;
	engine diagnostic as standard

Generator back-end specifications

deliciator back-end specifications	
Model PM	Synchronous Permanent Magnet,
	Maintenance free, water cooled alternator
Rated Power	50 kW at 3200 RPM
	Rated output voltage max 750 VDC
Number of phases	3
Freqency	up to 400 Hz
Efficiency	> 92 %

Accessoires

Up to 200 kVA: modulair switch mode bi-directional DC/DC converter for high voltage battery charging. Up to 200 kVA: modulair switch mode bi-directional DC/AC inverter for hotel load and stable 230/400 VAC 50/60 Hz. Power management control centre HY-Control, multipurpose display and load management control functions. Up to 80 kWh of high voltage Lithium ION battery-pack for silent mode, E-propulsion and hybrid functionality.

Also available: Integrated Flywheel generator





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WhisperPower fully-watercooled variable speed PM alternator 4 or 6 cyl. compact turbo diesel (Steyr or other brands)

INSTALLATION HY-GEN GENVERTER GV50



