



### Control Panel

The gen-set control panel was designed to include, in one single panel, the switches, control devices and the protection devices  
The components are the following :

- Engine cut-off module for automatic stop of engine in case of high water temperature, low oil pressure, high alternator temperature.
- Hour-meter.
- Start-stop button.
- Breaker for protection against of overload or short circuit.
- Thermal switch for D.C. electric circuit.

### Engine

- Easy access in case of maintenance to the feeding system and lubrication, of the sea/water pump and the air filter.
- Safety stop in case of low oil pressure.
- Safety stop in case high water/exhaust gas temperature.
- Oil and fuel filters of easy access.
- Manual oil pump extraction.

### Alternator

- Synchronous, 4 poles, brushless self-excited, electronic voltage regulator (AVR).
- Rotor and stator coated with epoxy resin against external agents.
- Rotor dynamically balanced.
- Insulation class H.

### Soundproof cabin

A new project engineering design with a structure of a draw piece of aluminum supporting, painted aluminum panels type 5754 of high resistance to external agents.

Easy accessibility to the main compartment makes easy maintenance with generator installed in narrow spaces.

ENGINE	
Model	Perkins 6TWGM
Type	Diesel 4 stroke
Cylinders (nr.)	6
Cylinder block material	Cast iron
Bore (mm. - in.)	100 - 3.9
Stroke (mm.- in.)	127 - 5
Displacement (cc. - cu.in)	5990 - 369
Power (hp - kW)	185 - 136
RPM	1500
Combustion system	Direct injection
Engine head material	Cast iron
Speed governor	Electronic
Lubrication system	Forced
Oil sump capacity with filter (l - qt)	16 - 17
Engine stop system	Fuel solenoid
Fuel pump	Mechanical
Fuel pump discharge (cm - in.)	300 - 11.8
Fuel consumption (l/h - U.S.gal/h)	31.5 - 8.3
Starting battery (Ah-V)	100 - 24
Starter (KW-V)	2.3 - 24
Max. inclination	30°
Water pump flow (l/min - U.S.gal/min.)	136 - 36

ALTERNATOR	
	50 Hz
Type	Synchronous 4-poles, self-excited
Cooling	Air
Voltage (V)	400
Power factor (cos $\Phi$ )	0,8
Max.Power (kVA)	160
Cont.Power (kVA)	146
Battery charger (Ah-V)	40 - 24
Insulating class	H
Voltage stability	$\pm 1\%$
Frequency stability	$\pm 5\%$

### Cooling system

The cooling of the engine is based on a closed inner flow of coolant. The system is based on a cupronickel heat exchanger seawater/coolant type, where the thermal exchange occurs between coolant and seawater. Two separate pumps contribute to the flow of the coolant and the sea water.

Dimension (LengthxWidthxHeight.)	2150x900x1200 mm	84.6x35.4x47.2 in.
Weight	1106 Kg	2440 lbs
Noise Level	61 dBA @ 7mt	

## FITTINGS

EXHAUST COMPONENTS KIT

SIPHON BREAK

STARTING REMOTE CONTROL PANEL WITH INSTRUMENTS

*This drawing is only a reference and is not indicated for the installation. For more information, you may contact your local dealer or **mase generators S.p.A.***

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