



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 in case of overload or short circuit.
- Thermal switch.

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.
- Oil vacuum pump.

Alternator

- Synchronous, 4 poles, self-excited, brushless, with electronic regulation of the voltage (AVR).
- Rotor and stator epoxy resin coated 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.

Of limited weight and easy accessibility to the inner cabin in case of maintenance services.

Engine

50 Hz	
Model	John Deere 4045DFM
Type	Diesel 4 stroke
Cylinders (nr.)	4
Cylinder block material	Cast iron
Bore (mm. - in.)	106 - 4.2
Stroke (mm.- in.)	127 - 5
Displacement (cc. - CID)	4500 - 274.7
Power (hp)	54
RPM	1500
Compression ratio	17.2:1
Combustion system	Direct injection
Engine head material	Cast iron
Speed governor	Centrifugal mechanical
Lubrication system	Forced
Oil sump capacity with filter (l - gl)	13.3 - 2.92
Engine stop system	Fuel solenoid
Fuel pump	Mechanical
Fuel pump discharge (cm. - ft)	80 - 2.62
Fuel consumption (l/h - gl/h)	11.4 - 2.5
Air intake (l/min - gl/min)	15000 - 3300
Starting battery (Ah-V)	100 - 12
Battery charger (Ah-V)	45 - 12
Starter (kW-V)	2.3 - 12
Max. inclination	30°
Water pump flow (l/min. - gl/min.)	60 - 13.2

Alternator

50 Hz	
Type	Synchronous, 4-poles, self-excited
Cooling	Air
Voltage 3~ (V)	400
Frequency (Hz)	50
Power factor (cos ø)	1 - 0.8
Max.Power (kW - kVA)	35 - 43.7
Cont.Power (kW - kVA)	32.5 - 40
Battery charger (Ah-V)	40 - 12
Insulating class	H
Voltage stability	±2%
Frequency stability	±5%

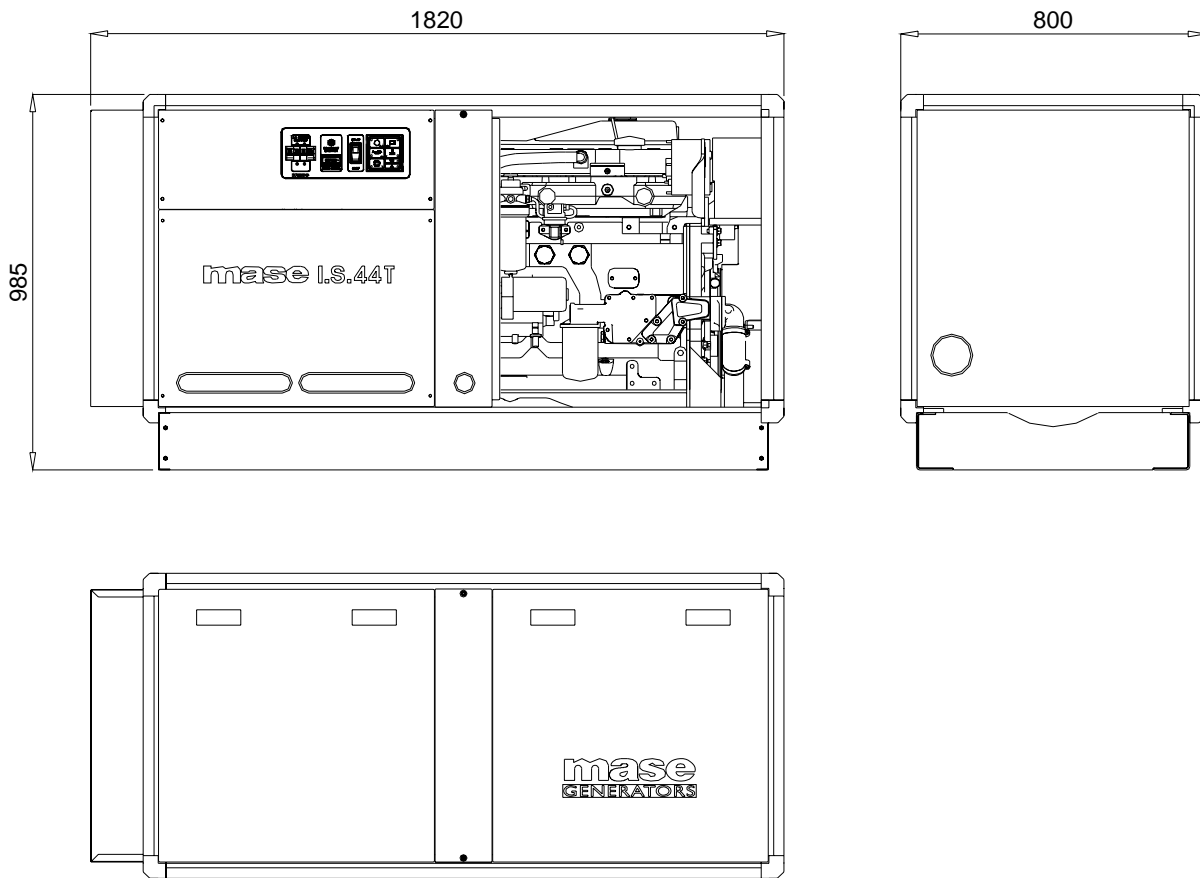
Cooling system

The cooling of the engine is based on a closed inner flow of coolant. The system is based on a heat exchanger seawater/coolant type, of cupronickel, where the thermal exchange occurs between the two liquids.

Two separate pumps contribute to the flow of the coolant and the sea water.

50 Hz

Dimension (Length x Width x Height.)	1820x800x985mm (71.6x31.5x38.7 inch) (with soundproof box)
Weight	900 Kg. (2000 lb) (with soundproof box)
Noise Level	58 dB _A a 7mt (23 ft.)



FITTINGS

- EXHAUST COMPONENTS KIT
- SIPHON BREAK
- REMOTE CONTROL PANEL COMPLETE OF INSTRUMENTS

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

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Allocation:



MASE GENERATORS S.p.A. Via Tortona, 345
47023 Cesena (FC) Italy
Tel.+39-0547-354311 Fax.+39-0547-317555
Email: mase@masegenerators.com
www.masegenerators.com