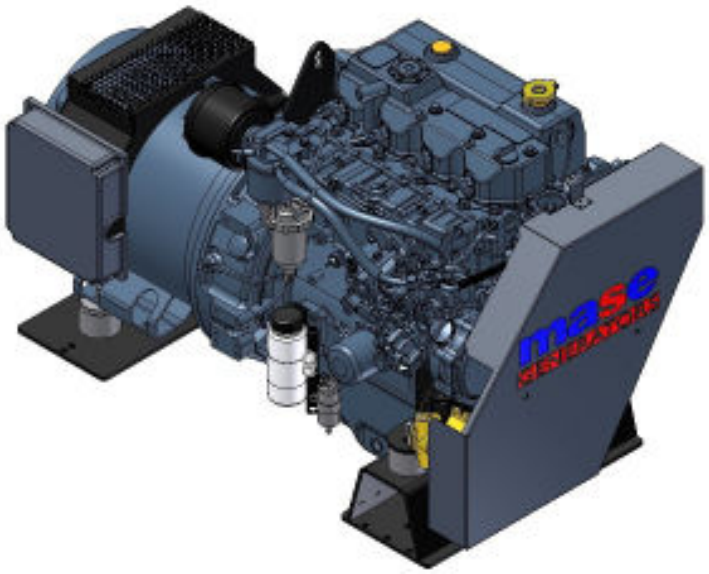
MARINER 2700 A
29 kW
50 Hz

MARINER 3100 A
34 kW
60 Hz



Remote Control Panel

Remote control panel was designed to include, in only one single panel, all switches, control devices and protection devices.
Components are the following :

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

Engine

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

Alternator

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

Engine	50 Hz	60 Hz
Model	Yanmar 4TNV98	
Type	Diesel 4 stroke	
Cylinders (nr.)	4	
Cylinder block material	Cast iron	
Bore (mm. - in.)	98 - 3.8	
Stroke (mm. - in.)	110 - 4.3	
Displacement (cc. - CID)	3319 - 169.4	
Power (hp)	47	56
RPM	1500	1800
Combustion system	Direct injection	
Engine head material	Cast iron	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Oil sump capacity with filter (lt. - US qt)	10.5 - 2.3	
Engine stop system	Stop solenoid	
Fuel pump	Electronic	
Fuel pump discharge (cm. - ft)	70 - 2.3	
Max fuel consumption (l/h-gl/h)	5.7 - 1.3	7.3 - 1.6
Starting battery (Ah-V)	80 - 12	
Battery charger (Ah-V)	40 - 12	
Starter (kW-V)	2.3 - 12	
Max. inclination	30°	
Water pump flow (l/min. - gl/min.)	40 - 8.8	45 - 9.9

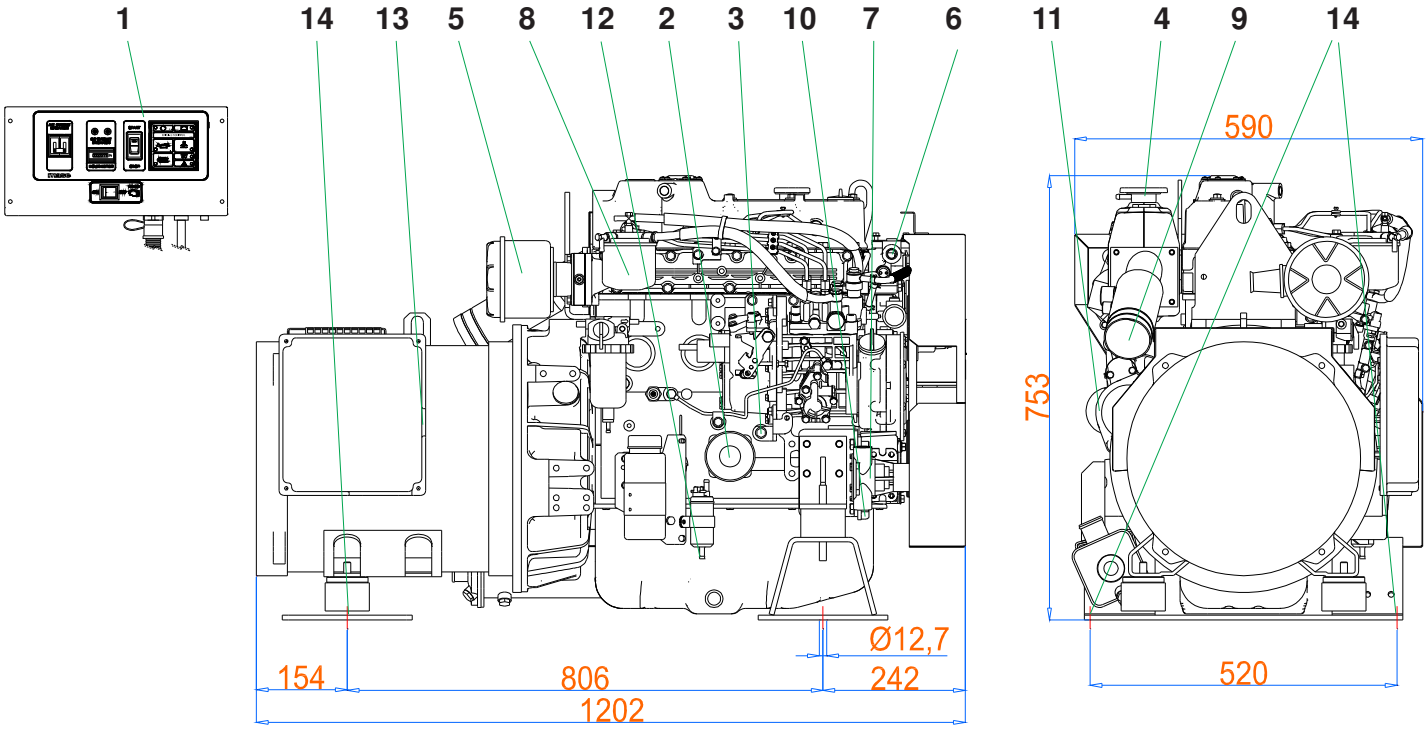
Alternator	50 Hz	60 Hz
Type	Synchronous, 4-poles, brushless self-excited	
Cooling	Air	
Voltage (V)	115 - 230	120 - 240
Frequency (Hz)	50	60
Nominal current (A)	174 - 89	200 - 100
Max. power (kW)	20	24
Continuous power (kW)	18	23
Power factor (cos Φ)	1	
Insulating class	H	
Voltage stability	±2%	
Frequency stability	±5%	

Cooling system

The cooling of the engine is based on a closed inner flow of coolant. The system is based on a 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.

2700 A 50 Hz • 3100 A 60 Hz

	50 Hz	60Hz
Dimension (Length x Width x Height.)	1202x590x753 mm (43.3x23.2x29.6 in)	
Weight	565 kg (1244 lb)	



1 - Control panel
2 - Engine oil filter cartridge
3 - Oil dipstick
4 - Engine oil cap
5 - Air filter
6 - Closed circuit water pump
7 - Seawater pump
8 - Fuel filter
9 - Seawater exhaust connection (ø 50mm)
10 - Seawater inlet (ø 16mm)
11 - Battery connection
12 - Fuel tank connection (ø 8mm)
13 - Electric cables outlet
14 - Fixing stirrups

FITTINGS

EXHAUST COMPONENTS KIT
SIPHON BREAK
WATER-GAS SEPARATOR KIT
STARTING REMOTE CONTROL PANEL WITH 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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