



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.

MARINER MARINER 1200 A 1400 A 11.2 kW 13.5 kW 50 Hz 60 Hz

Engine	50 Hz	60Hz	
Model	Yanmar 3TNV88		
Туре	Diesel 4 stroke		
Cylinders (nr.)	3		
Cylinder block material	Cast iron		
Bore (mm in.)	88 - 3.46		
Stroke (mm in.)	90 - 3.54		
Displacement (cc CID)	1642 - 100		
Power (hp)	18.4	22.2	
RPM	1500	1800	
Combustion system	Direct		
Engine head material	Cast iron		
Speed governor	Centrifugal mechanical		
Lubrication system	Forced		
Oil sump capacity with filter	6.7 - 7.1		
(lt US qt)	0.7 - 7.1		
Engine stop system	Stop solenoid		
Fuel pump	Electric		
Fuel pump discharge (cm ft)	70 - 2.3		
Max fuel consumption (l/h-gl/h)	4 - 1.05	5 - 1.32	
Starting battery (Ah-V)	80 - 12		
Battery charger (Ah-V)	40 - 12		
Starter (kW-V)	1,2 - 12		
Max. inclination	30°		
Water pump flow (I/min gl/min.)	25 - 6.6	28 - 7.4	
Alterneter	50 Hz	60H-	

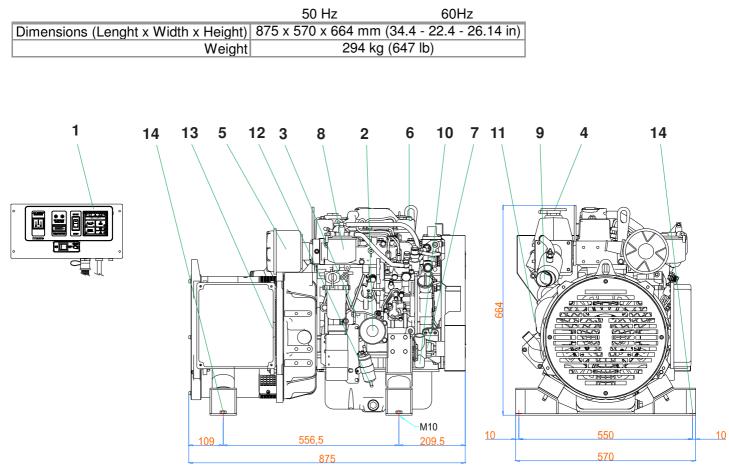
Alternator	50 Hz	60Hz	
Turpo	Synchronous, 4-poles,		
Туре	self-excited		
Cooling	Air		
Voltage (V)	115 - 230	120 - 240	
Frequency (Hz)	50	60	
Nominal current (A)	97.4 - 48.7	117.3 - 58.7	
Max. power (kW)	11.2	13.5	
Continuous power (kW)	10.2	12.3	
Power factor ($\cos \Phi$)	1		
Insulating class	Н		
Voltage 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.

1200 A 50 Hz • 1400 A 60 Hz





- 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

Dealer:			

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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