

# MARINER 1250T

**12,5 kVA 60 Hz**



## 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.

## Alternator

- Synchronous, 4 poles, brush less 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. Good accessibility inside canopy, makes maintenance services more easy.

## Engine

Engine	60 Hz
Model	Yanmar 3TNV82
Type	Diesel 4 stroke
Cylinders (nr.)	3
Cylinder block material	Cast iron
Bore (mm - in.)	82 - 3,23
Stroke (mm - in.)	84 - 3,31
Displacement (cc - cu.in.)	1330 - 81,2
Power (hp)	18,7
Rated rpm	1800
Combustion system	Indirect
Engine head material	Cast iron
Speed governor	Centrifugal mechanical
Lubrication system	Forced
Oil sump capacity (L - qt.)	5,5 - 5,8
Engine stop system	Stop solenoid
Fuel pump	Electric
Fuel pump discharge (cm - in.)	70 - 27,6
Full load consumption (L/h - gal/h)	3,6 - 1,0
Starting battery (Ah-V)	70 - 12
Battery charger (Ah-V)	40 - 12
Starter (kW-V)	1,4 - 12
Max. inclination	30°
Water pump flow (L/min - gal/min)	30 - 7,9

## Alternator

Alternator	60 Hz
Type	Synchronous, 4-poles, self-excited
Cooling	Air
Voltage (V) *	240
Frequency (Hz)	60
Current (A)	30,1
Max. power (kVA)	12,5
Continuous power (kVA)	11,9
Power factor ( cos $\phi$ )	0,8
Insulating class	H
Voltage stability	$\pm 2\%$
Frequency stability	$\pm 5\%$

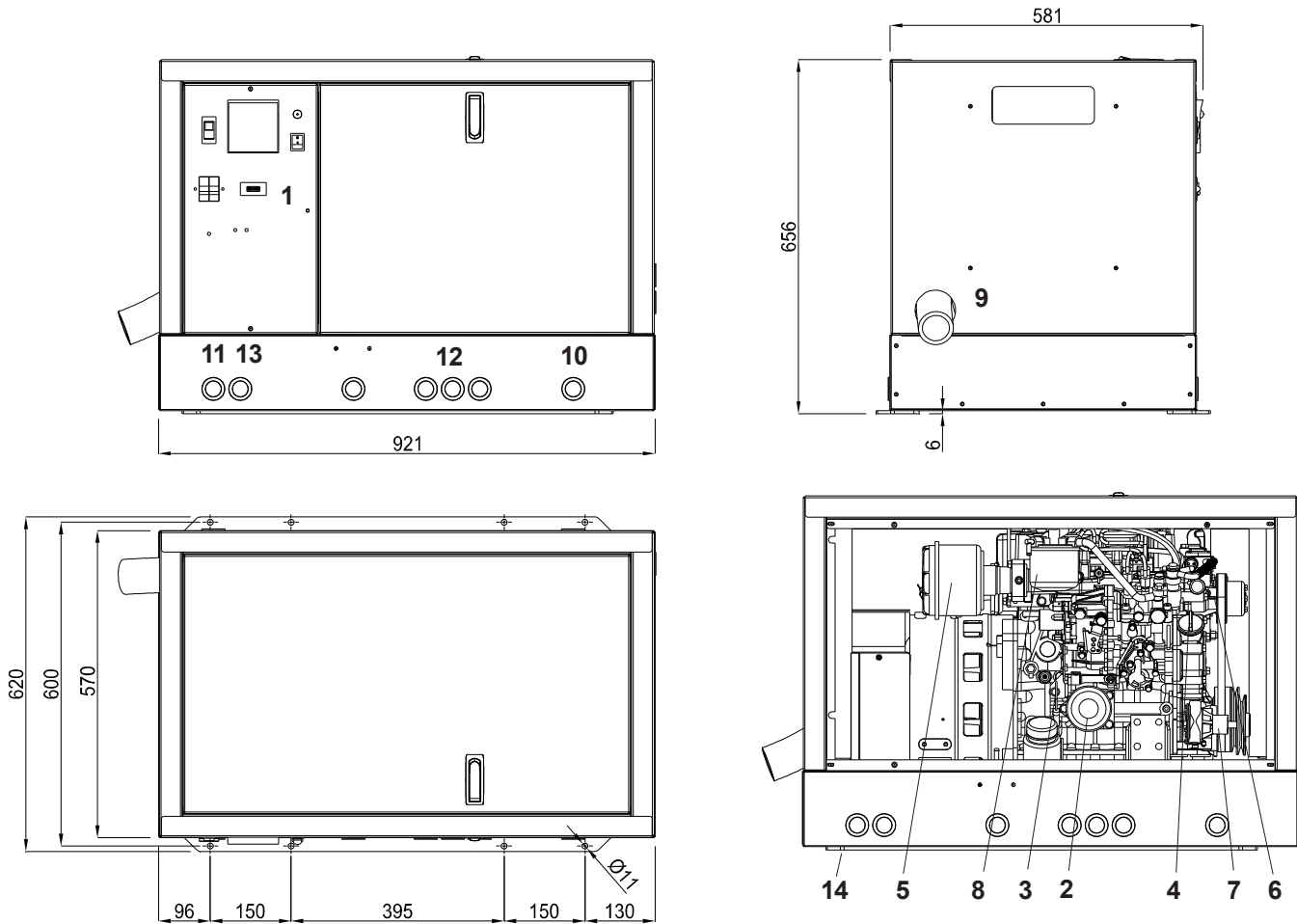
\*Other voltage available on request

## Cooling system

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

60 Hz

Dimensions (Leng. x Width x Height)	921 x 581 x 656 mm 36,3 x 22,9 x 25,8 in.	(with canopy)
Weight	295 kg , 649 lb	(with canopy)
Noise power level	52 dBA @ 7mt	



- 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 indicated for the installation. For more information, you may contact your local dealer or **mase generators S.p.A.***

***mase generators S.p.A.** reserves the right to change the design or specifications without notice and without any obligations or liability whatsoever. For more information, you may contact your local **mase** dealer.*

Dealer: