IS 9.1
8.6 kW 50 Hz

IS 9.6
9.6 kW 60 Hz

CBU control panel (Mod-Bus transmission Unit)

New design, latest technology, big display and soft touch buttons for quick menu navigation, start and stop procedure, IP54 protection grade. Very compact MASTER CBU 93x93mm *(3.66x3.66 in)*. CBU has many functions for easy monitoring of the generator:

- ON/OFF/START/STOP/MENU controls.
- Digital hour-meter, Main voltage, Generator Battery voltage, external battery pack voltage, Frequency, Service time, Event list of last 10 alarms and time.
- 13 different alarms icons displayed.
- 485 Mod-Bus connector for monitoring generator by boat main control monitor.

Engine

- Easy access in case of maintenance of feeding system, lubrication system, sea/water pump and air filter.
- Safety stop in case of low oil pressure.
- Safety stop in case high engine temperature or exhaust gas temperature.
- Oil filter and fuel filter easy to replace.
- Quick access to seawater pum.

Alternator

- Synchronous, 2 poles, self-regulated, brush less self-excited.
- Rotor and stator epoxy resin coated against external agents.
- Rotor dinamically bilanced.
- Insulation class H.
- Safety stop for high coilings temperature.

Soundproof cabin

A new project engineering design with a structure of a draw piece of aluminum supporting, painted aluminum panels of high resistance to external agents.
Of limited weight and easy accessibility to the inner cabin in case of maintenance services.

THE INTERCOOLER W/A

Assures the perfect functioning of the generator independently of the external ambient temperature, therefore the alternator and the engine will work at ideal temperature optimizing the performance and reliability of the gen-set.

Engine	50 Hz	60 Hz
Model	Kubota D722	
Type	Diesel 4 stroke	
Cylinders (nr.)	3	
Cylinder block material	Cast iron	
Bore (mm - in.)	67 - 2,6	
Stroke (mm - in.)	68 - 2,7	
Displacement (cc - cu.in.)	719 - 43,9	
Power (hp)	16,6	20
Rated rpm	3000	3600
Combustion system	Indirect	
Engine head material	Cast iron	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Oil sump capacity (L - qt.)	3,8 - 4,0	
Engine stop system	Stop solenoid	
Fuel pump	Electric	
Fuel pump discharge (cm - in.)	70 - 27,6	
Full load consumption (L/h - gal/h)	3,1 - 0,82	3,9 - 1,03
Starting battery (Ah-V)	45 - 12	
Battery charger (Ah-V)	40 - 12	
Starter (kW-V)	0,7 - 12	
Max. inclination	30°	
Water pump flow (L/min - gal/min)	20 - 5,28	24 - 6,34

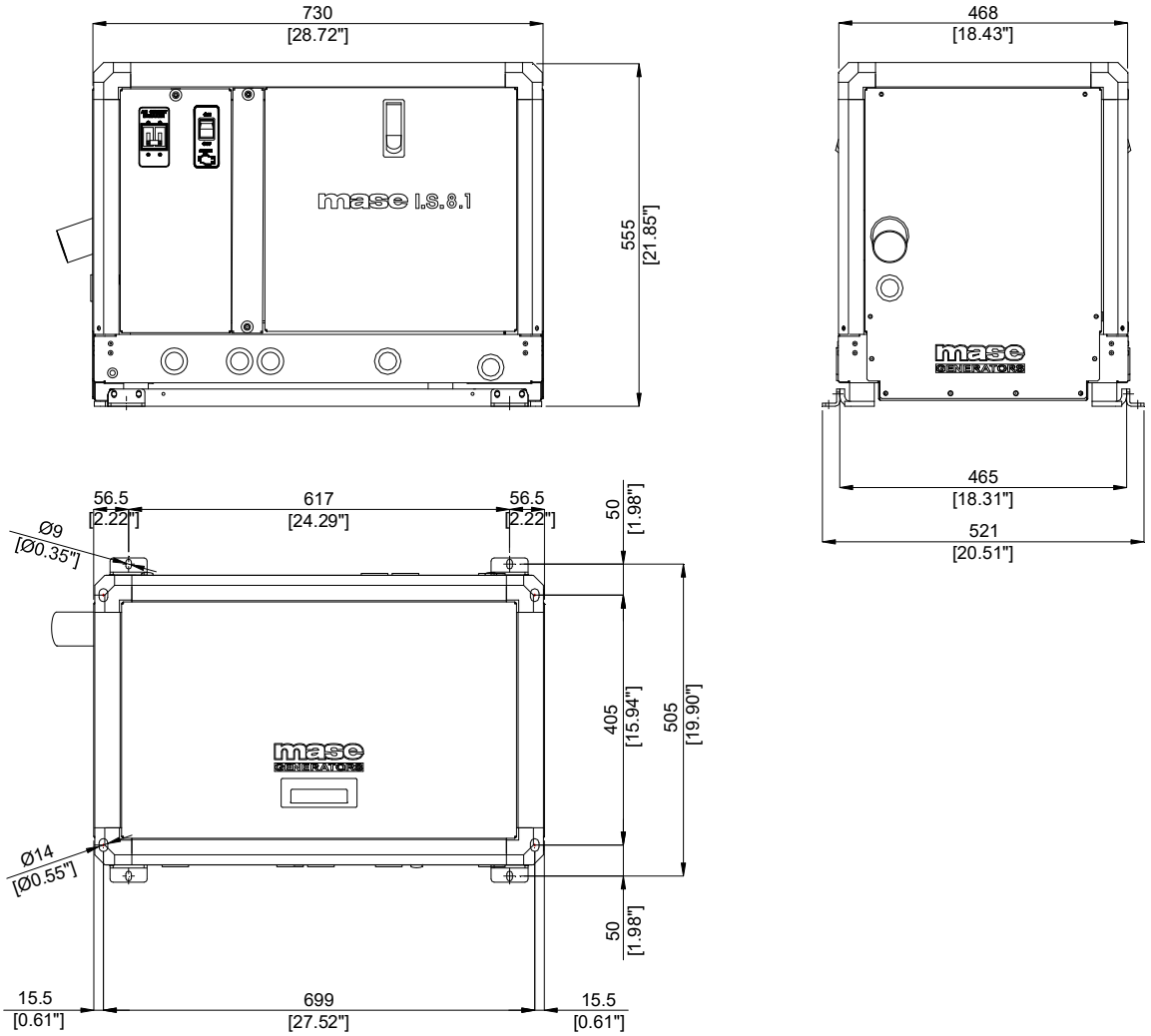
Alternator	50 Hz	60 Hz
Type	Synchronous, 2-poles, self-excited	
Cooling	Air/water (Intercooler W/A)	
Voltage (V)	115 - 230	120 - 240
Frequency (Hz)	50	60
Current (A)	74,8 - 37,4	80 - 40
Max. power (kW)	8,6	9,6
Continuous power (kW)	7,8	8,8
Power factor (cos ø)	1	
Insulating class	H	
Voltage stability	±10%	
Frequency stability	±5%	

Cooling system

The cooling of the engine is based on a coolant closed circuit.
The system is composed by seawater/coolant heat exchanger. Air inside the canopy is cooled through seawater/air heat exchanger. This system makes cooling of alternator more effective and achieve optimal temperature for best performance and reliability of the generating set, indipendet from allocation room temperature.

IS 9.1 50 Hz . IS 9.6 60 Hz

	50 Hz	60 Hz
Dimensions (Leng. x Width x Height)	730 x 468 x 555 mm	
	28,7 x 18,4 x 21,9 in.	
Weight	185 kg - 407 lb	
Noise level emission	54 dBA @ 7mt	56 dBA @ 7mt



FITTINGS (optional)

- **EXHAUST COMPONENTS KIT**
- **SIPHON BREAK**
- **WATER-GAS SEPARATOR KIT**
- **STARTING REMOTE CONTROL PANEL WITH A SHIELD CONNECTING CABLE 10 Mt. (32.8 ft) LONG OR**
- **SLAVE CBU CONTROL PANEL WITH A SHIELD CONNECTING CABLE 10 Mt. (32.8 ft) LONG**

*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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