



### 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 pump.

### Alternator

- Permanent magnet alternator (PMG)

### Soundproof cabin

A new project cabin composed by painted marine aluminum panels. It combines an innovative design and a very high resistance to external agents.

Thanks to this design, soundproof cabin has a very limited weight, and an easy accessibility for maintenance service, also if installed in narrow sites.

### 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

|                                   |                        |
|-----------------------------------|------------------------|
| 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 - 28,3             |
| Power (hp - kW)                   | 16,6 - 12,2            |
| Rated rpm                         | from 2100 to 3150      |
| Combustion system                 | Indirect               |
| Engine head material              | Cast iron              |
| Speed governor                    | Electronic by actuator |
| 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              |
| Starting battery (Ah-V)           | 45 - 12                |
| Battery charger (W-V)             | 150 - 12               |
| Starter (kW-V)                    | 0,7 - 12               |
| Max. inclination                  | 30°                    |
| Water pump flow (L/min - gal/min) | 22 - 5,81              |

### Alternator

|                             |                             |
|-----------------------------|-----------------------------|
| Type                        | PMG                         |
| Cooling                     | Air/water (Intercooler W/A) |
| Voltage (V)                 | 230 / 240                   |
| Frequency (Hz)              | 50 / 60                     |
| Continuous power (kW)       | 10,5                        |
| Power factor ( cos $\phi$ ) | 1                           |
| Insulating class            | H                           |
| Voltage stability           | $\pm 1\%$                   |
| Frequency stability         | $\pm 1\%$                   |

### Cooling system

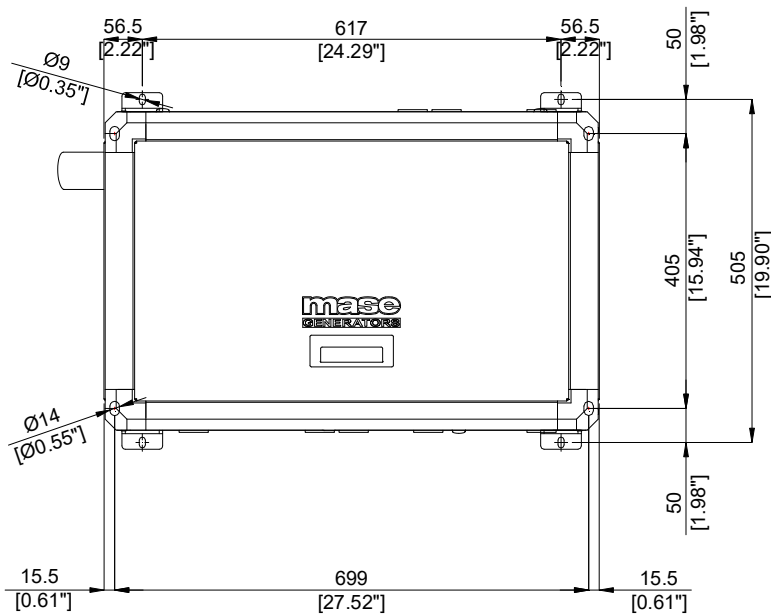
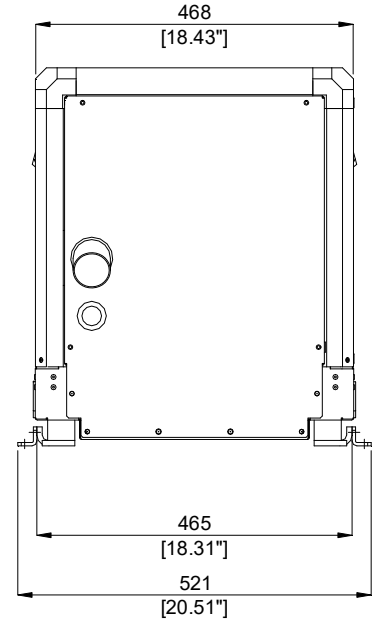
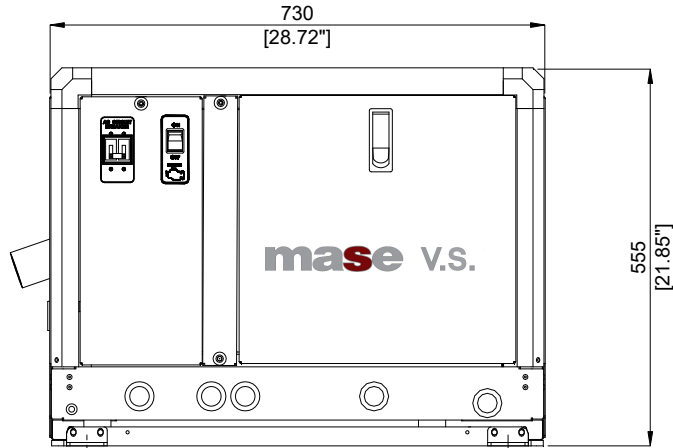
The cooling of the engine is based on a coolant closed circuit.

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, independent from allocation room temperature.

# VS 10.5 50/60 Hz

50Hz / 60Hz

|                                     |                    |         |
|-------------------------------------|--------------------|---------|
| Dimensions (Leng. x Width x Height) | 730 x 468 x 555    | mm      |
|                                     | 28,7 x 18,4 x 21,9 | in.     |
| Weight                              | 176 - 388          | kg - lb |
| Noise level emission                | 54 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.***

***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:

**mase**  
**GENERATORS**

MASE GENERATORS S.p.A. Via Tortona, 345  
47522 Cesena (FC) Italy  
Tel. +39-0547-354311 Fax. +39-0547-317555  
Email : [mase@masegenerators.com](mailto:mase@masegenerators.com)