

VS 500 SV



CONTROL PANEL



VOLVO ENGINE



PMG ALTERNATOR

the engine revs vary depending on the required load; therefore, if you have only few electrical applications connected, the genset will automatically calibrate to the required power, while ensuring exceptional voltage and frequency stability. That means lower fuel consumption, reduction of emissions, lower need of maintenance and more silent operation. Extremely compact and quiet, the genset is equipped with a double shock absorbing system to increase comfort: the first one absorbs vibrations from engine-alternator to the frame, the second one absorbs residual micro-vibrations from frame to vessel.



COMPACT
DESIGN



EASY
INSTALLATION



SUPER
SILENCED

We reserve the right to modify the data, images and drawings in this document without prior notice.

For more detailed information, please contact your local distributor or Mase Generators S.p.A.

Last update date



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mase
GENERATORS
Believing in change.

CONTROL PANEL

The IntelliDrive BaseBox controller communicates with the Electronic Engine Management System via CAN bus using the standard J1939. IntelliDrive

- Remote control 7 monitoring via Modbus RTU / TCP-IP
- RS232, RS485, Ethernet communication port
- 4-20 mA engine rpm control
- Stop for: Emergency pushbutton, Overspeed, High Coolant temperature, Low coolant level, Low oil pressure
- Mase control panel with InteliVision 5" display, "ON-OFF" key, Green "ON" lamp, yellow "ALARM" lamp, red "FAULT" lamp, emergency push-button, buzzer and 24V key supply.
- Predisposition for remote input hardwired signal: Start, Stop, Emergency stop, Reset, rpm adjust.
- Remote available output signals: Ready to Start, Remote/Local mode, Common alarm, Common fault
- Fault detection for oil pressure switch and water temperature switch line.

ENGINE

- _ Easy maintenance access to the feeding and lubrication systems, the sea water pump and the air filter

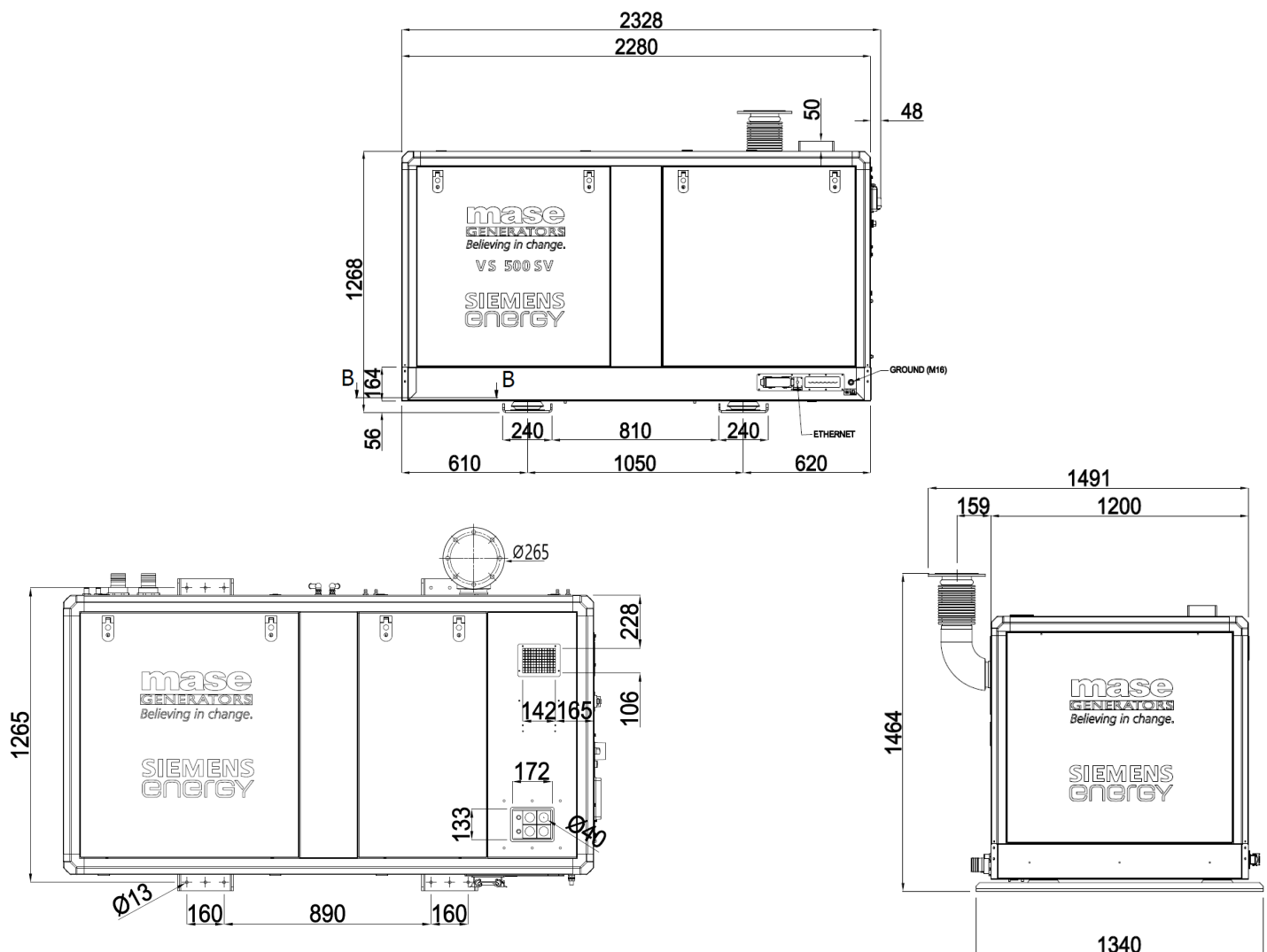
_ Double vibration dumping system

_ Oil drain pump

SOUNDPROOF CABIN

- _ Made of extremely light marine aluminum with very high resistance to external agents

Insulated poles kit (for metal hull boats), dry exhaust kit and keel cooling kit are available on request



DATA SHEET

AC alternator -	Permanent magnets (PMG)
Cooling -	Water - Glycol
Voltage -	400 V
Frequency -	300 Hz
Amps -	614.2 A
Continuous power -	425 kW
Insulating class -	H
Voltage stability -	±1%
Frequency stability -	±1%

The power is referred to a sea water temperature up to 31°, an atmospheric pressure of 100 KPa and a humidity percentage of 30%

Model -	Volvo D13-700
Type -	Diesel 4 stroke
Cylinders -	nr 6 in-line
Cylinder block material -	Cast iron
Bore -	131 mm - 5.16 in
Stroke -	158 mm - 6.22 in
Displacement -	12780 cc - 779.9 CID
Power -	700 hp - 515 kWm
RPM -	1250 - 2250
Compression ratio -	16.7:1
Combustion system -	Direct injection
Engine head material -	Cast iron
Speed governor -	Electronic
Lubrication system -	Forced
Oil sump capacity with filter -	45 l - 11.88 gl
Engine stop system -	Solenoid valve
Fuel pump -	Mechanic
Max. fuel pump head -	150 cm - 4.92 ft
Fuel consumption -	110 l/h - 29.05 gl/h
Air intake -	40.5 m³/min - 10.69 ft³/min
Starting battery -	2 x 110-150 Ah - 12 V
Battery charger -	24 V - 110 A
Starter motor -	7 kW - 24 V
Max. inclination -	30°
Water pump flow -	425 l/min - 112.3 gl/min
Sea water inlet pipe Ø -	60 mm - 2" 1/2
Flange exhaust pipe Ø -	265 mm - 10"
Input/Output fuel pipe Ø -	13 mm - 1/2"
Dimensions (L x W x H) -	2280 x 1200 x 1268 mm - 89.8 x 47 x 50 in (with soundproof box)
Weight -	2420 Kg - 5325 lb (with soundproof box)
Noise Level -	70 dBA at 7 mt (23 ft)