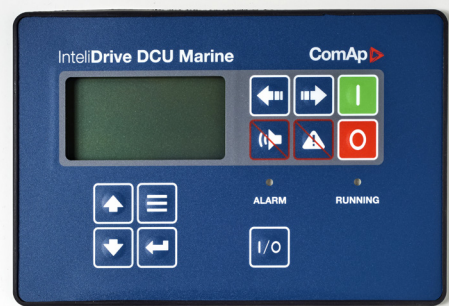


VS 180 VLS



CONTROL PANEL



VOLVO ENGINE



CONTROL PUSHBUTTONS

Variable speed generator set ideal for hybrid applications. The engine speed varies according to the required load. This means lower consumption, reduced emissions, less maintenance and quieter operation. Extremely compact and quiet, the generator is equipped with a dual vibration damping system to increase comfort: the first reduces the level of vibrations from the engine/alternator assembly to the chassis, the second absorbs residual micro vibrations originating between the generator chassis and the boat. It can be supplied in setup with or without an Ac/dc converter and customized to meet the needs of the system integrator.



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.

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mase
GENERATORS
Believing in change.

CONTROL PANEL

_ IntelliDrive Marine controller is equipped with a powerful graphic display with icons, symbols, bar-graphs and panel buttons for intuitive operation controls and can communicate with Engine Management System via CAN serial line using standard J1939 or another communication protocol (KWP2000).

IntelliDrive monitors and protects the generating group and switches itself to the backup mode in the case of controller failure.

- Modular IACS Certified Engine Controller for marine applications
- Support of multiple devices on the same CAN bus line
- Remote monitoring via Modbus, Ethernet and AirGate
- Modbus RTU and Modbus TCP/IP protocol
- RS232, RS485, Ethernet communication port
- Engine rpm control via ModBus line or 4-20mA signal Emergency stop, Overspeed Stop, High coolant temp., Low coolant level, Low oil pressure.
- Predisposition for remote input/output hardwired signal: start, stop, emergency stop, alarm reset, rpm adjust., ready to start, remote/local mode, general alarms, general faults.
- Redundant architecture: main unit + backup module
- Internal configurable PLC
- PLC lock capability to keep your know-how safe
- History record up to 4000 event
- Backup ID-RPU module with broken wire protections
- Customizable colour HMIs (Human Machine Interface)

_ Emergency stop button

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 -	Axial flow PMG, dual stage, in phase
Cooling -	Glycol
Voltage -	For DC Bus systems from 400-800 V
Frequency -	320 Hz
Amps -	240 A
Continuous power -	180 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 D4-300 I
Type -	Diesel 4 stroke
Cylinders -	nr 4
Cylinder block material -	Cast iron
Bore -	103 mm - 4.06 in
Stroke -	110 mm - 4.33 in
Displacement -	3670 cc - 224 CID
Power -	301 hp - 221.38 kWm (at 3000 RPM)
RPM max-	1650 - 3000
Compression ratio -	17.5:1
Combustion system -	Direct injection
Engine head material -	Cast iron
Speed governor -	Centrifugal mechanical
Lubrication system -	Forced
Oil sump capacity with filter -	12 l - 0.26 gl
Engine stop system -	Solenoid valve
Fuel pump -	Mechanic
Max. fuel pump head -	100 cm - 39.4 ft
Fuel consumption -	58 l/h - 15.3 gl/h
Starting battery -	115 Ah - 12 V
Battery charger -	145 Ah - 12 V
Starter motor -	12 V
Max. inclination -	30°
Water pump flow -	105 l/min - 27.73 gl/min
Sea water inlet pipe Ø -	50 mm - 1.96 in
Exhaust pipe Ø -	50 mm - 1.96 in
Input/Output fuel pipe Ø -	13 mm - 0.5 in

Dimensions (L x W x H) -	1274 x 1030 x 918 mm - 50.15 x 40.55 x 36.14 in (with soundproof box)
Weight -	780 Kg - 1719.61 lb (with soundproof box)
Noise Level -	61 dBA at 7 mt (23 ft)