MARINE GENERATORS

G-8M-3

Single-Phase

General data

Maximum power (2)	8 kWe (8.0 kVA)	**Voltage**	230 V
Prime Power (3)	7.3 kWe (7.3 kVA)	**Amperage**	34.9 A
Frequency	50 Hz	**Phases**	1

Dimensions and weights

Total length without canopy	845 mm	**Total length with canopy**	-
Total width without canopy	482 mm	**Total width with canopy**	-
Total height without canopy	568 mm	**Total height with canopy**	-
Dry weight without canopy	165 Kg	**Dry weight with canopy**	-

Engine

Base engine manufacturer	Mitsubishi	**Diameter**	76 mm (2.99 in)
Model	MINI-17	**Stroke**	70 mm (2.76 in)
Type	Diesel, 4 stroke	**Compression ratio**	23:1
Engine RPM	3000	**Injection system**	Mechanical and indirect
Number of cylinders	2	**Intake system**	Naturally aspirated
Total displacement	635 cc	**SAE Flywheel housing**	SAE 5
Oil	SAE 15W40	**Coolant capacity**	2.7 L (0.71 gal)
Oil capacity	2.8 L (0.74 gal)	**Flywheel**	SAE 6 1/2
Power (1)	10.1 kW (13.74 CV)	**Coolant flow rate**	28 l/min (7.4 gal/m)
Salt water flow rate	29 l/min (7.66 gal/m)	**Intake air flow rate**	0.83 m3/m
Exhaust type	Wet exhaust elbow	**V-Belt Protection**	Optional
Emission compliance	-		

(1) Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity and 25 °C (77 ° F))
(2) Maximum output power: maximum power supplied by the genset at full load
(3) Prime Power: rated power according to ISO 3046 and ISO 8528-1. 10 % overload capacity one hour in twelve hours.
1 kW = 1,36 CV 1 kW = 1,36 HP (metric) 1 kW = 1,36 CH

Fuel system details

Consumption 25%	1.3 l/h (0.34 gal)	**Fuel type**	Diesel
Consumption 50%	1.9 l/h (0.5 gal)	**Fuel standards**	Fueloil diesel ASTM
Consumption 75%	2.6 l/h (0.69 gal)	**Injection pump type**	In line
Consumption 100%	3.4 l/h (0.9 gal)	**Governor type**	Mechanical

Electrical system

Battery voltage	12 V	**Stop solenoid type**	ETR
Starter motor	1.2 kW	**Alternator**	40 A
Earth isolated	Optional	**IP 65 box kit**	Optional
SCO 11 double panel	Optional	**Current transformers**	Optional

Installation details

Exhaust hose inner diameter	40 mm (1.57 in)	**Maximum fuel lift height**	0.3 m (0.98 ft)
Sea water hose inner diameter	20 mm (0.79 in)	**Maximum raw water lift height**	3 m (118.11 in)
Fuel feeding hose inner diameter	8 mm (0.31 in)	**Maximum sea water temperature**	32 º (89.6 ºF)
Fuel return hose inner diameter	6 mm (0.24 in)	**Maximum installation angle (6)**	25 º
Minimum battery capacity	12 V 45 Ah		

Alternator details

Brand	Meccalte	**Cos Phi**	1
Model	ES20FS-130	**Tropicalized**	Yes
Regulator type	ASR	**Excitation system**	Brushless
Number of poles	2	**Voltage regulation accuracy (5)**	2,5%
Isolation type (4)	H	**Alternator type**	Synchronous
IP protection	23	**Standards**	EN60034-1, IEC 60034-1

Standard equipment

4 m electrical wiring extension	SCO 11 control panel
Oil extraction pump	Owner´s and alternator manual
Rigid bed	Packaging
Anti Vibration Mounts	

Optional accessories

Siphon break kit mandatory if generator is below waterline	Wet Exhaust System
Engine electrical system at 24 V	Water Filters
Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,...	Sea water cock
Dry Exhaust system	Welcome Kit

(4) Other protections available
(5) With load from 0 to 100%, speed variation from -2% up to +5%, power factor 0,8 linear and balanced load.
(6) In all directions
For other requirements please contact the Sales Dept.
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SCO 11 Panel

General Description

- Graphic LCD with light, 128 x 64 pixels display
- Genset measures (see Display Information)
- Configuration protected by user and password
- Running hour indication
- Multilingual
- Event history log
- Genset protections (see Alarm Management)
- Preheating function
- D+ pre-excitation Terminal
- Built-in PLC function
- CAN bus information with SAE J1939 protocol
- Maintenance hours control
- Dimensions 195 x 135 x 47 mm
- Panel cut-out 172 x 112 mm
- Weight 450 g

Alarm Management

- Shutdown (SD)
- Low/High Speed
- Overload*
- Short Circuit*
- Overcurrent*
- High/Low Voltage
- High/Low Frequency
- Emergency Stop
- Warnings (WRN)
- High engine coolant temperature
- Low oil pressure
- High/Low Battery Voltage
- Maintenance warning
- Sensor failure detection (FLS)
- MCU Alarm

Power Supply

- Voltage supply 12/24 DC with fuse protection
- Consumption 80mA (12V) or 51 (24V)

Operating Conditions

- Operating temperature -20+70 °C
- Humidity 95 % without condensation
- Front Panel Protection IP65
- Standard Conformity
- EN 61000-6-2, EN 61000-6-4, EN 61010-1
- EN 60068-2-6 (2÷25 Hz / ±1,6 mm; 25÷100 Hz / 4.0 g)
- EN 60068-2-30:2005 25/55°C, RH 95%, 48hours
- EN 60529 (front panel IP65, back side IP20)

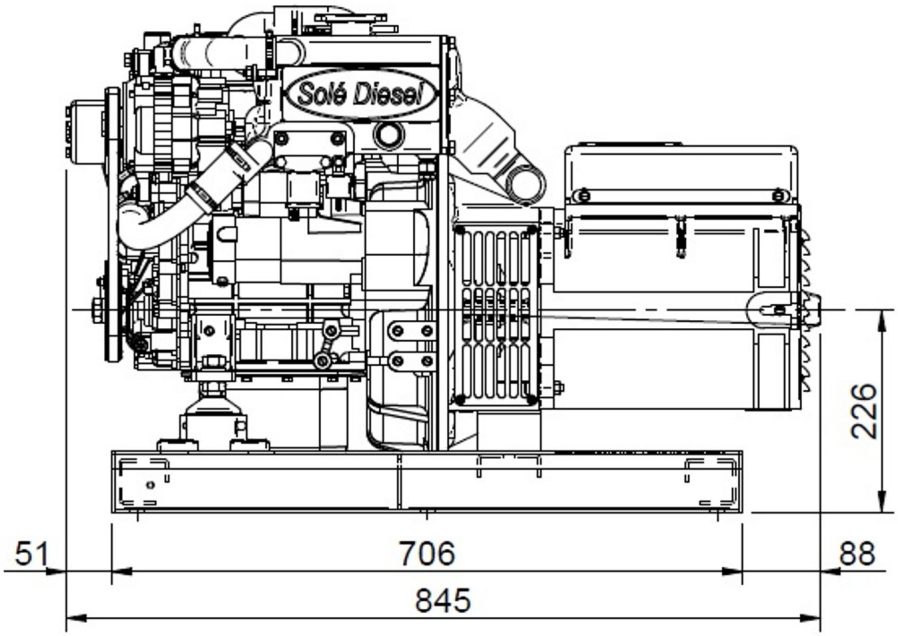
Display Information

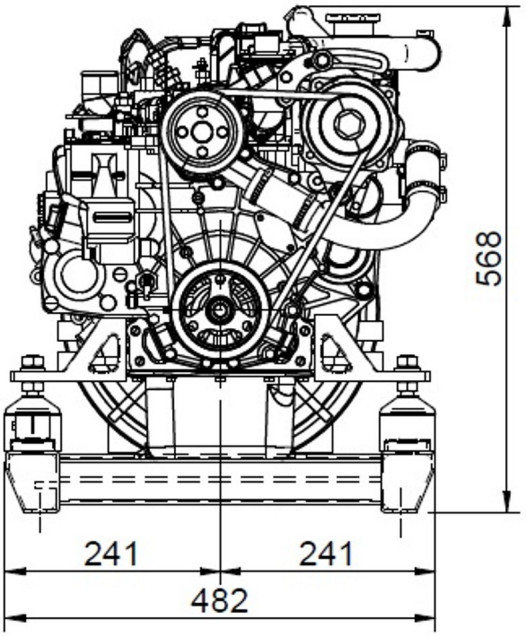
- Measurement
- L1-L3 Voltage (V)
- Frequency (Hz)
- Oil Pressure (bar)
- Coolant Temperature (°C)
- Battery Voltage (V)
- RPM
- Power* (kW)
- Apparent Power* (kVA)
- Current* (A)
- PF*
- Historical Log
- Alarm History

Operating modes

- OFF Mode
- MAN Mode (manual start/stop engine)
- AUT Mode (auto start/stop engine)

Dimensions





Authorized dealer

Detailed drawings, brochures and manuals are available on the web soleadvance.com.
Technical specifications, data and presentation are subjected to variations, changes and updates without prior notice
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CERTIFIED ISO 9001