



Marine Generator Set 10 GS/GSC Single-Phase



General Description

Max Power¹ 9,4 kW (9,4 kVA)	Power² 8,6 kW (8,6 kVA)	Frequency 50 Hz
Voltage 230 V	Current intensity 41 A.	Phases 1

Dimensions and Weights

	Length	Width	Height	Weights
With canopy	1032 mm (40,63 in)	580 mm (22,83 in)	668,5 mm (26,32 in)	320 Kg (706 Lbs)
Without canopy	885 mm (34,84 in)	580 mm (22,83 in)	599 mm (23,59 in)	272 Kg (599 Lbs)

Engine

Engine base	Mitsubishi	Bore	78 mm (3,07 in)
Solé Diesel engine model	MINI - 33	Stroke	92 mm (3,62 in)
Type	4 cycle	Compression ratio	22:1
RPM Engine	1500	Combustion system	Indirect mechanical injection
Number of cylinders	3	Intake system	Naturally aspirated
Displacement	1318 cc	Flywheel housing size	SAE 5
Oil type	SAE 15W40	Coolant capacity	5,7 L (1,51 Gal)
Oil capacity	4 L (1,06 Gal)	Flywheel size	SAE 7 1/2
Rated power	10,7 kW (14,35 HP)	Coolant flow	40 L/Min.(10,57 Gal/Min.)
Raw water flow	16,5 L/Min.(4,36 Gal/Min.)	Intake air how	0,85 m ³ /min
Cooling air flow	40 m ³ /min.		

Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity and 25 °C (77° F))

* 1 Maximum Output Power: maximum power supplied by the genset at full load.

* 2 Prime Power: Rated Power according to ISO 3046 and ISO 8528-1. 10 % overload capacity one hour in twelve hours.

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Fuel system

Typical Fuel Consumption

25 %	1,2 L/Hs. (0,32 Gal/Hs.)
50 %	1,8 L/Hs. (0,48 Gal/Hs.)
75 %	2,5 L/Hs. (0,66 Gal/Hs.)
100 %	3,1 L/Hs. (0,82 Gal/Hs.)

Fuel type	Diesel
Fuel quality	Diesel ASTM
Type of Injection Pump	In line
Pump Regulator Type	Centrifugal

Engine electrical

Battery voltage	12 V	Shutoff solenoid	ETR
Starter motor	1,7 kW	Alternator	50 A

Installation

Ø int. Exhaust Hose (mm)	51 mm (2,01 in)	Maximum recommended fuel lift	0,3 m (0,98 ft)
Ø int. Raw Water Hose (mm)	20 mm (0,79 in)	Maximum recommended raw water lift	1,5 m (59,06 in)
Ø int. Fuel supply hose (mm)	8 mm (0,31 in)	Raw water maximum temperature	32 ° C (89,6 ° F)
Ø int. Fuel return hose (mm)	6 mm (0,24 in)	Maximum operating angle (°)***	25 °
Min. Battery capacity (Ah)	12 V 65 Amps/h		

Alternator

Brand	Sincro	Cos φ	1
Model	SK160CA1	Tropicalized	Yes
Regulator type	BL4	Excitation system	Brushless
Number of poles	4	Voltage regulation Accuracy**	±1%
Insulation Type*	H	Standards	EN 60034-1, IEC 60034-1,
IP protection*	23	Frequency Regulation	Synchronous

Optional Equipment

- Siphon break kit - mandatory if generator is below waterline
- Engine electrical system at 24V
- Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,...
- Dry Exhaust system
- Exhaust System
- Water Filters
- Welcome Kit
- Keel Cooling conversion for dry and wet exhaust
- Double walled pipes and alarm kit
- Low coolant level shut down switch
- Fuel filter/water separator
- Gas/Water Separator
- Fuel Hose
- Exhaust Hose
- Raw water hose
- Sea cock

For other requirements please contact the Sales Dept.

* Other protections available

** With load from 0 to 100%, speed variation from -2% up to +5%, power factor 0,8 linear and balanced load.

*** In all directions



Welcome Kit



General Description

- Graphic LCD with light, 128 x 64 pixels display
- 56 LED indicators
- Genset Measures (see Display Information)
- Configuration protected by password
- Running hour indication
- Multilanguage
- Genset protections (see Alarm Management)
- Preheating function
- D+ pre-excitation Terminal
- CAN bus information output with SAE J1939 protocol
- Dos temporizadores multiuso
- Dimensions 180 x 120 x 55 mm
- Weight 450g

Alarm Management

Shut Downs (SD)

- High coolant temperature
- Low oil pressure
- Overspeed
- Overload*
- Short circuit*
- Overcurrent*
- Over/Under voltage
- Over/Under frequency
- Emergency stop

Warnings (WRN)

- High coolant temperature
- Low oil pressure
- Over/Under voltage
- Maintenance request

Sensor Fails (FLS)

Function Description

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



IP 65 Box Kit

Power Supply

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

Operating Conditions

- Operating temperature -20+70°C
- Humidity 95% Without condensation
- Front Panel Protection IP65

Standard Conformity

- Low Voltage Directive EN 61010-1:95 +A1:151 EN 61010-1:95 +A1:97
- Electromagnetic EN 50081-1:94, EN 50081-2:150 EN 50081-1:94, EN 50081-2:96
- Compatibility EN 50082-1:99, EN 50082-2:151 EN 50082-1:99, EN 50082-2:97

Display Information

Measurement

- L1-L3 Voltage (V), Frequency (Hz), Oil Pressure, (bar), Coolant Temperature (°C), Battery, Voltage (V), rpm, Active Power* (kW), Apparent, Voltage (V), rpm, Active Power* (kW), Apparent, Power* (kVA), Current* (A), PF*.

History log

Optional Equipment

SCO 10 Double panel

- SCO 10 Double panel allows the same operation and functionality as Main SCO 10. They are connected by RS485 port with a communication wire, available in 12/24/36 m.

IP65 Box Kit

- Electrical Box for SCO 10 panel with an IP65 protection code. In addition, it includes an emergency stop button and an on/off panel power switch.

Binary Input/Output extension module

IG-IB Internet communication bridge

- For Ethernet/Internet communications

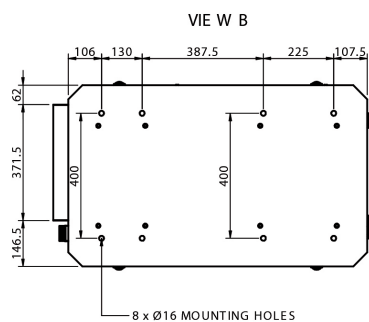
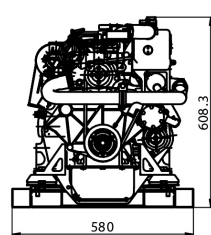
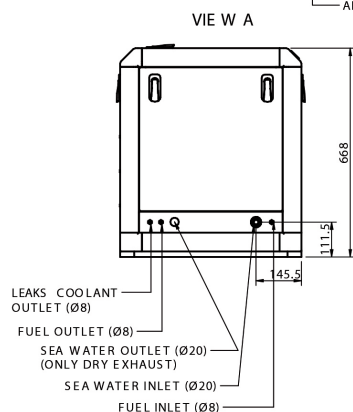
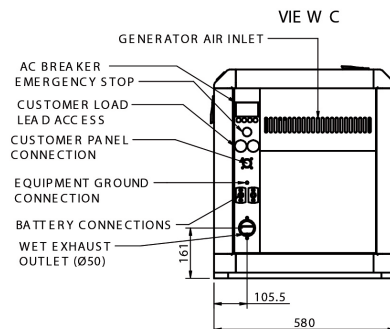
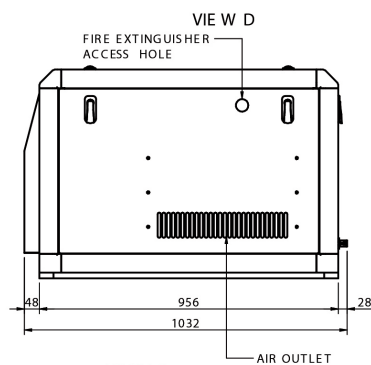
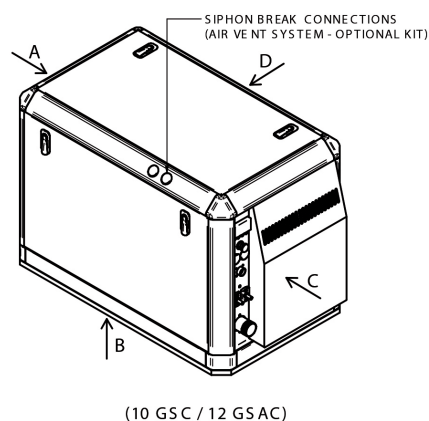
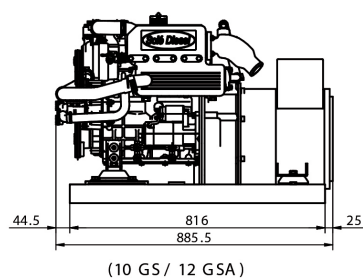
Current transformers

- Current (A), Active Power (kW), Apparent power (kVA) and PF genset measures

*The specified function needs the current transformers (Optional Equipment) for showing the information in SCO 10 panel display

Dimensions

10 GS/GSC - 12 GSA/GSAC



Dimensions in millimetres
This drawing is provided for reference only.