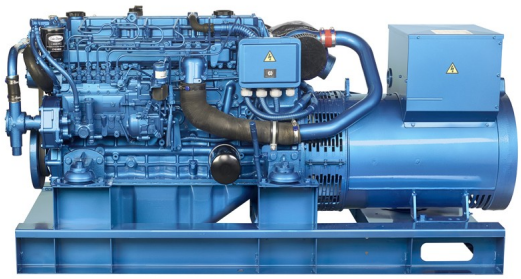

MARINE GENERATORS

68 GT/GTC

Three-Phase

General data

Maximum power*	54.7 kW (68.4 kVA)	**Voltage**	400/230 V
Prime Power**	49.7 kW	**Amperage**	98.7 A
Frequency	50 Hz	**Phases**	3

Dimensions and weights

Total length without canopy	1682 mm	**Total length with canopy**	1903 mm
Total width without canopy	700 mm	**Total width with canopy**	840 mm
Total height without canopy	800 mm	**Total height with canopy**	848 mm
Dry weight without canopy	759 Kg	**Dry weight with canopy**	869 Kg

Engine

Base engine manufacturer	Mitsubishi	**Diameter**	94 mm (3.7 in)
Model	SM-81	**Stroke**	120 mm (4.72 in)
Type	Diesel, 4 stroke	**Compression ratio**	17:1
Engine RPM	1500	**Injection system**	Mechanical and indirect
Number of cylinders	6	**Intake system**	Turbocharged
Total displacement	4996 cc	**SAE Flywheel housing**	SAE 3
Oil	SAE 15W40	**Coolant capacity**	21 L (5.55 gal)
Oil capacity	12 L (3.17 gal)	**Flywheel**	SAE 11 1/2
Power	59.6 kW (81.06 CV)	**Coolant flow rate**	70 l/min (18.49 gal/m)
Salt water flow rate	38 l/min (10.04 gal/m)	**Intake air flow rate**	4.2 m3/m
Exhaust type	Wet exhaust elbow	**V-Belt Protection**	Optional

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

Consumption 25%	4.8 l/h (1.27 gal)	**Fuel type**	Diesel
Consumption 50%	7.8 l/h (2.06 gal)	**Fuel standards**	Fueloil diesel ASTM
Consumption 75%	11 l/h (2.91 gal)	**Injection pump type**	In line
Consumption 100%	14.5 l/h (3.83 gal)	**Governor type**	Mechanical

Electrical system

Battery voltage	12 V	**Stop solenoid type**	ETR
Starter motor	3 kW	**Alternator**	50 A
Earth isolated	Included	**IP 65 box kit**	Optional
SCO 11 double panel	Optional	**Current transformers**	Included

Installation details

Exhaust hose inner diameter	90 mm (3.54 in)	**Maximum fuel lift height**	0.6 m (1.97 ft)
Sea water hose inner diameter	32 mm (1.26 in)	**Maximum raw water lift height**	2.5 m (98.43 in)
Fuel feeding hose inner diameter	10 mm (0.39 in)	**Maximum sea water temperature**	32 º (89.6 ºF)
Fuel return hose inner diameter	10 mm (0.39 in)	**Maximum installation angle*** **	15 º
Minimum battery capacity	12 V 120 Ah		

Alternator details

Brand	Meccalte	**Cos Phi**	0,8
Model	ECP32 1L 4 C	**Tropicalized**	Yes
Regulator type	DSR	**Excitation system**	BRUSHLESS
Number of poles	4	**Voltage regulation accuracy****	0,01
Isolation type*	H	**Standards**	EN60034-1, IEC 60034-1
IP protection	23	**Alternator type**	SÍNCRONO

Standard equipment

Earth isolated	Silentblocks
Amperometric transmitter kit	SCO 10 control panel
4 m electrical wiring extension	Owner´s and alternator manual
Oil extraction pump	Packaging
Rigid bed	

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

* 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
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
- Multilengüaje
- 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
- Board Cutting 172 x 112 mm
- Weight 450 g

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 Battery voltage
- Maintenance request
- Sensor failure detection (FLS)

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)

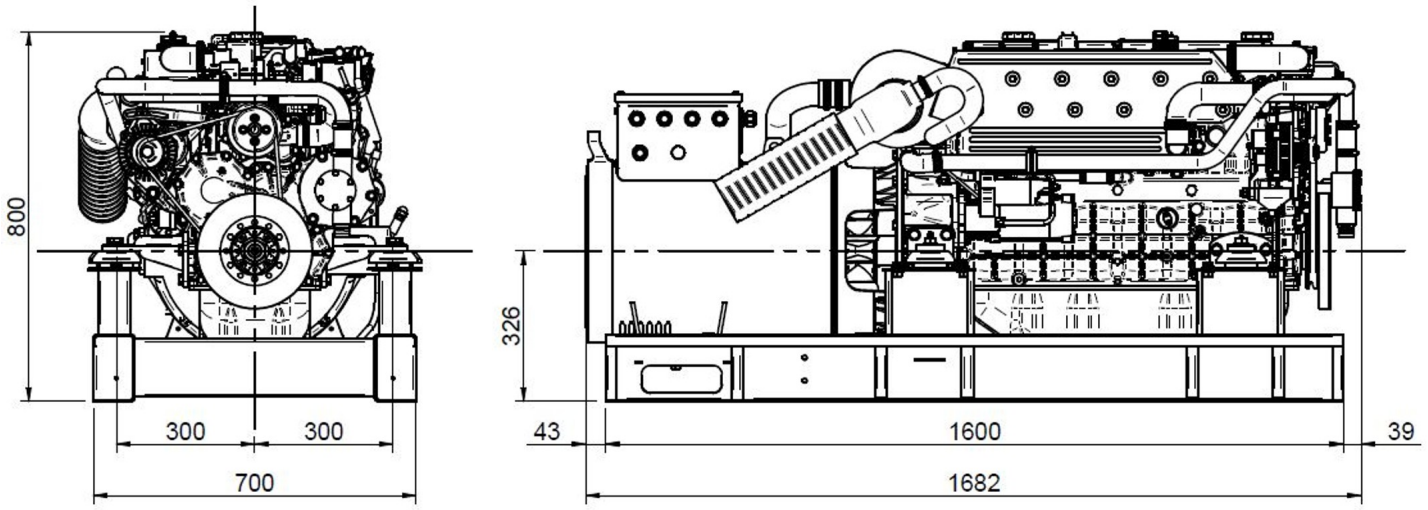
Display Information

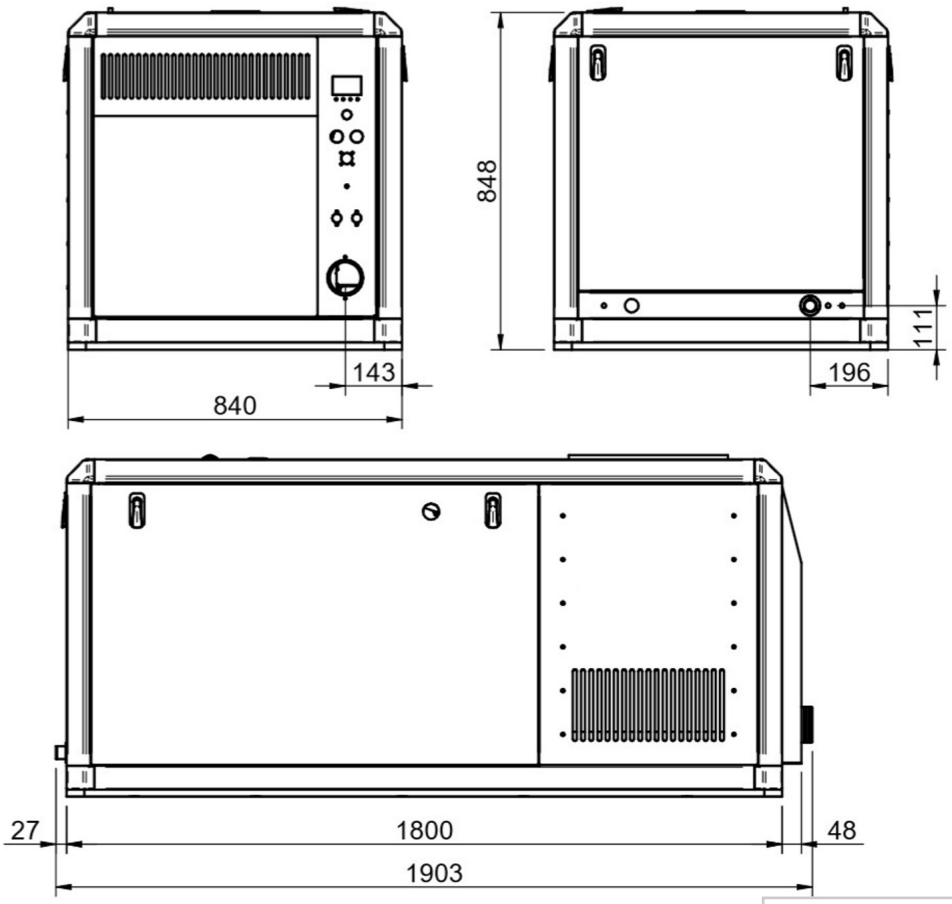
- Measurement
- L1-L3 Voltage (V), Frequency (Hz), Oil Pressure (bar)
- Coolant Temperature (°C), Battery voltage (V), RPM
- Active Power* (kW), Apparent, Power* (kVA), Current* (A), PF*
- History log

Operating modes

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

Dimensions





Authorized dealer

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