

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 Solé Diesel: | SM-81 | Stroke: | 120 mm (4,72 in) |
| Type: | 4 No. of Strokes | 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 | Belt protection: | Optional |

Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity and 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.

1 kW \cong 1,36 CV 1 kW \cong 1,36 HP (metric) 1 kW \cong 1,36 CH

Fuel system details

| | | | |
|--------------------------|-----------------------|-----------------------------|---------------------|
| Consumption 25%: | 4,8 L/H (1,27 Gal/H) | Fuel type: | Diesel |
| Consumption 50%: | 7,8 L/H (2,06 Gal/H) | Fuel standards: | Fueloil diesel ASTM |
| Consumption 75%: | 11 L/H (2,91 Gal/H) | Injection pump type: | In line |
| Consumption 100%: | 14,5 L/H (3,83 Gal/H) | 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 °C (89,6 °F) |
| Fuel return hose inner diameter: | 10 mm (0,39 in) | Maximum installation angle***: | 15 ° |
| Minimum battery capacity: | 12 V 120 Ah | | |

Alternator details

| | | | |
|-------------------------|--------------|---------------------------------------|------------------------|
| Brand: | Meccalte | Cos φ: | 0,8 |
| Model: | ECP32 1L 4 C | Tropicalized: | No |
| 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: | Synchronous |

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

* 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.



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
- 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)

Operating modes

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



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*

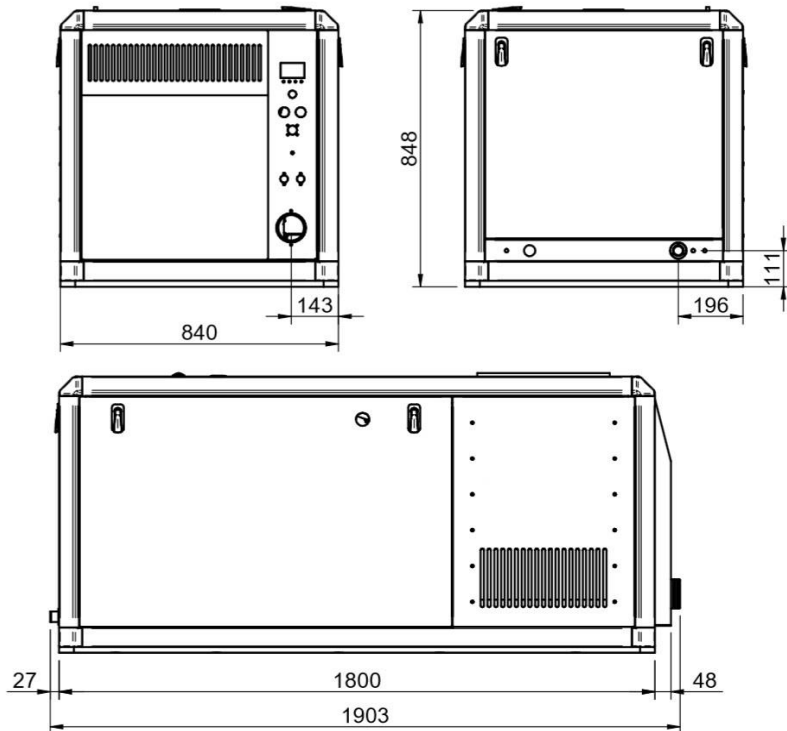
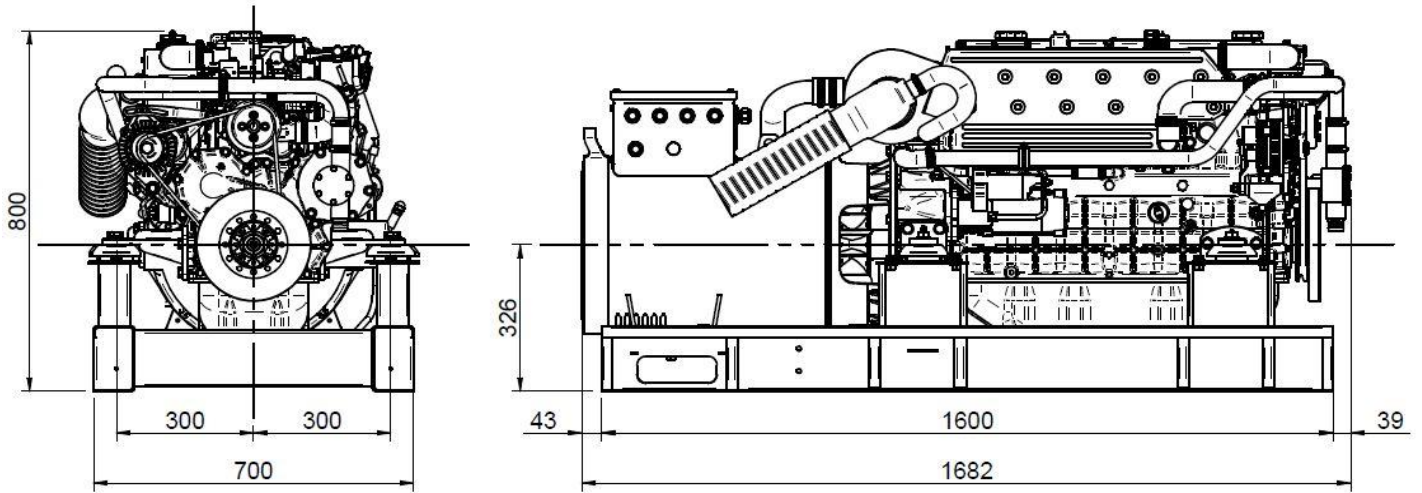
History log

Optional Equipment

- RS232-485 module for double danel
- Binary Inputs/Outputs extension module
- IG-IB Internet connection bridge
- IP65 metallic box protection kit

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

Dimensions



Authorized dealer

www.solediesel.com
info@solediesel.com

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