



Marine Generator Set 50 GT/GTC Three-phase



General Description

Max Power¹ 39,11 kW (48,9 kVA)	Prime Power² 35,6 kW (44,5 kVA)	Frequency 50 Hz
Voltage 400 V / 230 V	Current intensity 70,06 A. 122,8 A.	Phases 3 + N 3

Dimensions and Weights

	Length	Width	Height	Weights
With canopy	1875 mm (73,82 in)	840 mm (33,07 in)	848 mm (33,39 in)	791 Kg (1744 Lbs)
Without canopy	1675 mm (65,94 in)	840 mm (33,07 in)	800 mm (31,5 in)	701 Kg (1544 Lbs)

Engine

Engine base	Mitsubishi	Bore	94 mm (3,7 in)
Solé Diesel engine model	SM-105	Stroke	120 mm (4,72 in)
Type	4 cycle	Compression ratio	22:1
RPM Engine	1500	Combustion system	Indirect mechanical injection
Number of cylinders	6	intake system	Naturally aspirated
Displacement	4996 cc	Flywheel housing size	SAE 3
Oil type	SAE 15W40	Coolant capacity	21 L (5,55 Gal)
Oil capacity	12 L (3,17 Gal)	Flywheel size	SAE 11 1/2
Rated power	43,4 kW (58,2 HP)	Coolant flow	80 L/Min.(21,13 Gal/Min.)
Raw water flow	38 L/Min.(10,04 Gal/Min.)	Intake air flow	3,3 m ³ /min
Cooling air flow	80 m ³ /min.		

Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity abd 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 %	4 L/Hs. (1,06 Gal/Hs.)
50 %	6,2 L/Hs. (1,64 Gal/Hs.)
75 %	9 L/Hs. (2,38 Gal/Hs.)
100 %	12,2 L/Hs. (3,22 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	3 kW	Alternator	50 A

Installation

Ø int. Exhaust Hose (mm)	76 mm (2,99 in)	Maximum recommended fuel lift	0,6 m (1,97 ft)
Ø int. Raw Water Hose (mm)	32 mm (1,26 in)	Maximum recommended raw water lift	2,5 m (98,43 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)	0 mm (0 in)	Maximum operating angle (°)***	15 °
Min. Battery capacity (Ah)	12 V 92 Amps/h		

Alternator

Brand	Meccalte	Cos φ	0,8
Model	ECP32-1M/4B	Tropicalized	Yes
Regulator type	DSR	Excitation system	Brushless
Number of poles	4	Voltage regulation Accuracy**	±1%
Insulation Type*	H	Standards	EN60034-1, 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
- 111 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

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

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 +A1:206 EN 61010-1:95 +A1:97
- Electromagnetic EN 50081-1:94, EN 50081-2:205 EN 50081-1:94, EN 50081-2:96
- Compatibility EN 50082-1:99, EN 50082-2:206 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

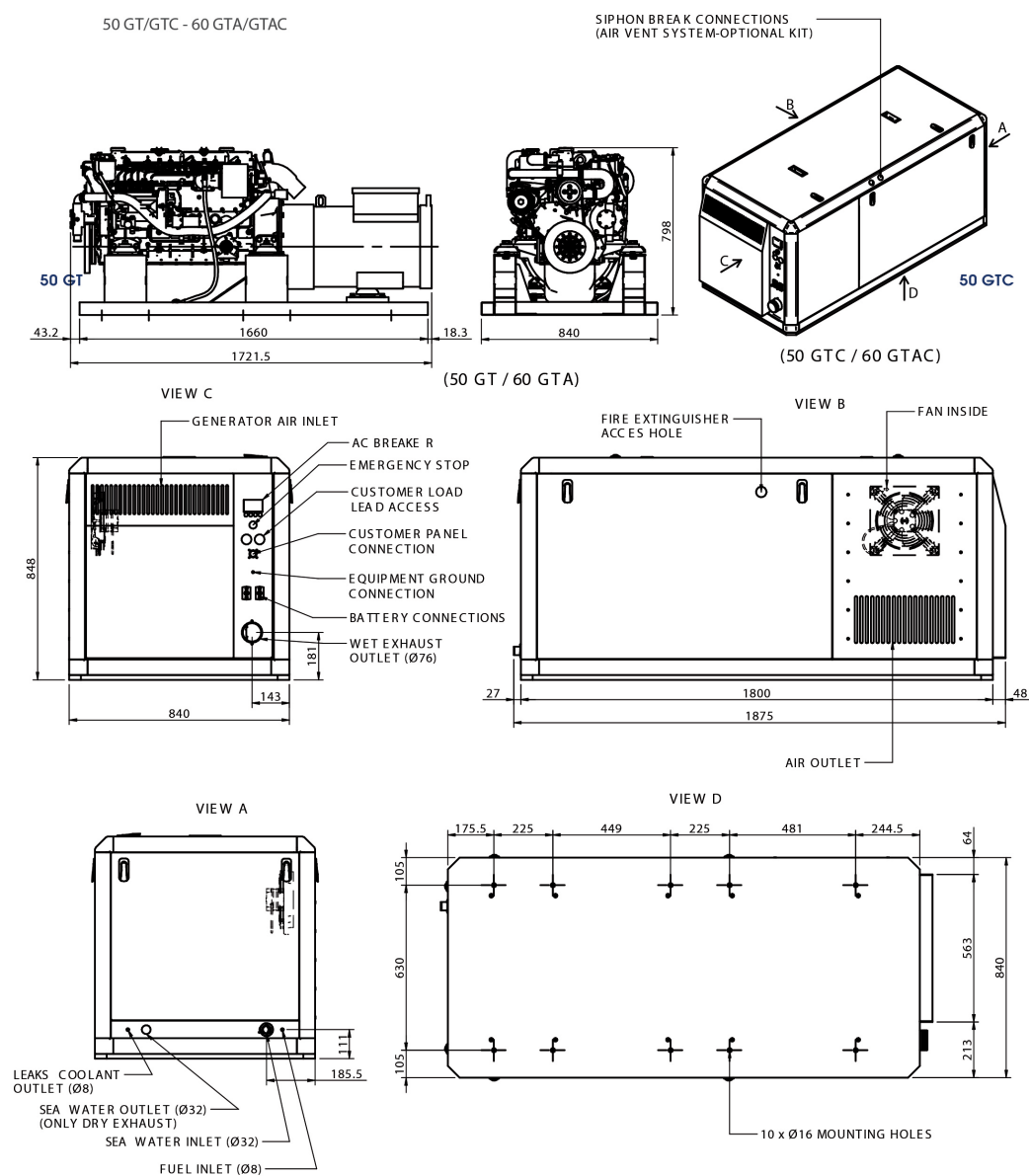
IG-IB Internet communication bridge

- For Ethernet/Internet communications

Current transformers

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

Dimensions



Dimensions in millimetres
This drawing is provided for reference only.



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