



General data

Maximum power*:	13,9 kW (13,9 kVA)	Voltage:	230 V
Prime Power**:	12,6 kW	Amperage:	60,4 A
Frequency:	50 Hz	Phases:	1

Dimensions and weights

Total lenght without canopy:	1036 mm	Total lenght with canopy:	1181 mm
Total width without canopy:	580 mm	Total width with canopy:	580 mm
Total height without canopy:	612 mm	Total height with canopy:	668 mm
Dry weight without canopy:	294 Kg	Dry weight with canopy:	344 Kg

Engine

Base engine manufacturer:	Mitsubishi	Diameter:	78 mm (3,07 in)
Model Solé Diesel:	MINI-44	Stroke:	92 mm (3,62 in)
Type:	4 stroke	Compression ratio:	22:1
Engine RPM:	1500	Injection system:	Mechanical and indirect
Number of cylinders:	4	Intake system:	Naturally aspirated
Total displacement:	1758 cc	Flywheel housing:	SAE 5
Oil type:	SAE 15W40	Coolant capacity:	8 L (2,11 gal)
Oil capacity:	6 L (1,59 gal)	Flywheel:	SAE 7 1/2
Power:	15 kW (20,4 CV)	Coolant flow rate:	55 l/min (14,53 gal/m)
Salt water flow rate:	16,5 l/min (4,36 gal/m)	Intake air flow rate:	1,2 m3/m

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.

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

Fuel system details			
Consumption 25%:	1,8 L/H (0,48 Gal/H)	Fuel type:	Diesel
Consumption 50%:	2,7 L/H (0,71 Gal/H)	Fuel standards:	Fueloil diesel ASTM
Consumption 75%:	3,5 L/H (0,92 Gal/H)	Injection pump type:	in line
Consumption 100%:	4,3 L/H (1,14 Gal/H)	Governor type:	Mechanical

Electrical system			
Battery voltage:	12 V	Stop solenoid type:	ETR
Starter motor:	2 kW	Alternator:	50 A

Installation details			
Exhaust hose inner diameter:	50 mm (1,97 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:	1,5 m (59,06 in)
Fuel feeding hose inner diameter:	8 mm (0,31 in)	Maximum sea water temperature:	32 °C (89,6 °F)
Fuel return hose inner diameter:	6 mm (0,24 in)	Maximum installation angle***:	25 °
Minimum battery capacity:	12 V 80 A/h		

Alternator details			
Brand:	Sincro	Cos φ:	1
Model:	SK160MA1	Tropicalized:	Yes
Regulator type:	BL4	Excitation system:	Brushless
Number of poles:	4	Voltage regulation accuracy**:	1%
Isolation type*:	H	Standards:	EN 60034-1, IEC 60034-1, ISO 8528-3
IP protection*:	23	Alternator type:	Synchronous

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
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 5 Panel



General Description

- Graphic LCD with light Display, 128 x 64 pixels
- 3 LED indicators
- Marine genset measures (see display information)
- Marine genset protections (see alarm management)
- Running hour indicator
- Type B USB for programming
- Programming from the same panel
- Universal Interface
- Preheating function
- D+ preexcitation terminal
- CAN bus output with SAEJ1939 protocol
- 2 multipurpose timers
- Dimensions 118x 108 x 43 mm
- Weight 246 g

Alarm Management

Shutdown (SD)

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

Warnings (WRN)

- Over/Under battery voltage
- Maintenance request

Sensor Fails (FLS)

Function Description

- 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 60/35 mA

Operating Conditions

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

Standard Conformity

- Low Voltage Directive EN 61010-1:95+A1:97
- Electromagnetic EN 50081-1:94, EN 50081-2:96
- Compatibility 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, Power* (kVA), Current* (A), PF*

History log

Optional Equipment

IP 65 Box Kit

- Panel built into an electrical box with IP65 protection
- Kit with emergency shutoff, switch and alarm.

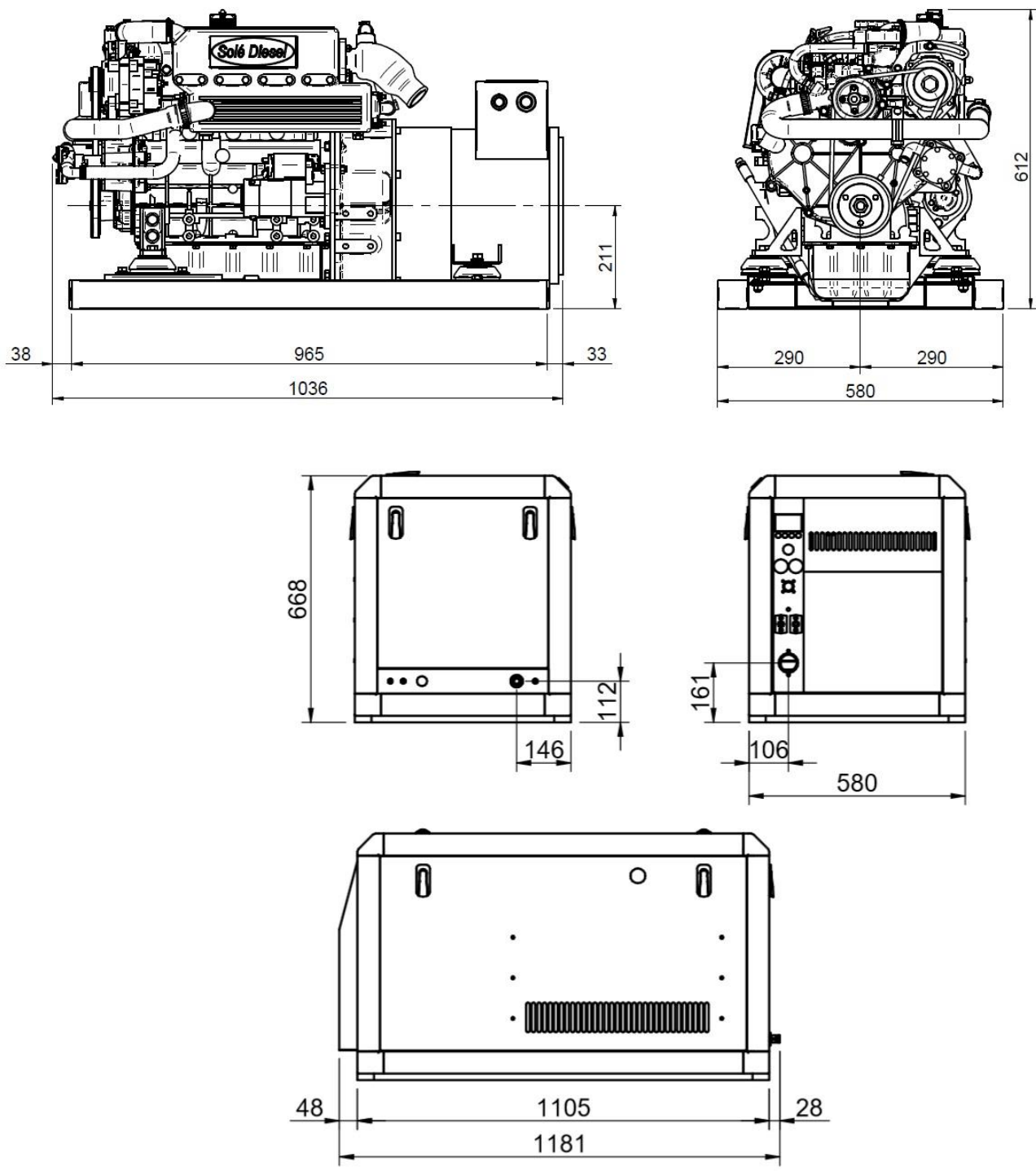
Current transformers

It allows the following measures:

- Current (A), Active Power (kW), Apparent power (kVA) and PF
- Isolated transformers to the mass
- Voltage transformation unit to separate principal voltage
- Controller with (1:1) voltage rating

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

Dimensions



Authorized dealer

TECHNICAL DETAILS REFERENCE: FA0661EN000001

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