



MARINE GENERATORS

12 VSC

Single-Phase

General data

Maximum power*	12 kW (12 kVA)	Voltage	230 V
Prime Power**	10.9 kW	Amperage	52.2 A
Frequency	50 Hz	Phases	1

Dimensions and weights

Total length with canopy	750 mm
Total width with canopy	525 mm
Total height with canopy	567 mm
Dry weight with canopy	190 Kg

Engine

Base engine manufacturer	Mitsubishi	Diameter	76 mm (2.99 in)
Model	MINI-29 Stage V	Stroke	70 mm (2.76 in)
Type	Diesel, 4 stroke	Compression ratio	23:1
Engine RPM	2200 - 3000	Injection system	Mechanical and indirect
Number of cylinders	3	Intake system	Naturally aspirated
Total displacement	952 cc	SAE Flywheel housing	SAE 5
Oil	SAE 15W40	Coolant capacity	2.7 L (0.71 gal)
Oil capacity	1.8 L (0.48 gal)	Flywheel	SAE 6 1/2
Power	15.8 kW (21.49 CV)	Coolant flow rate	30 l/min (7.93 gal/m)
Salt water flow rate	38 l/min (10.04 gal/m)	Intake air flow rate	0.64 m3/m
Exhaust type	Wet exhaust elbow	Speed regulator	Electronic with actuator

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.
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%	3.36 l/h (0.89 gal)	Fuel type	Diesel
Consumption 50%	4.05 l/h (1.07 gal)	Fuel standards	Fueloil diesel ASTM
Consumption 75%	4.5 l/h (1.19 gal)	Injection pump type	In line
Consumption 100%	4.7 l/h (1.24 gal)		

Electrical system

Battery voltage	12 V	Stop solenoid type	ETR
Starter motor	1.2 kW	Alternator	40 A
Earth isolated	Optional	IP 65 box kit	Optional
SCO 11 double panel	Optional	Current transformers	Included

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	1.3 m (51.18 in)
Fuel feeding hose inner diameter	6.5 mm (0.26 in)	Maximum sea water temperature	32 ° (89.6 °F)
Fuel return hose inner diameter	6.5 mm (0.26 in)	Maximum installation angle***	25 °
Minimum battery capacity	12 V 60 Ah		

Alternator details

Brand	Meccalte	Cos Phi	1
Model	PM5G	Tropicalized	Yes
Number of poles	20	Excitation system	Brushless
Isolation type*	H	Alternator type	PMG
IP protection	23		
Standards	EN61000-6-3, EN61000-6-2, EN61000 3-2/3-12, EN550002, EN1000 6-1		

Inverter details

Power Output	20 kW	Phases	2
Voltage Output	230 V	Input Voltage	3 PH 300-490 VAC RMS
Output Current	87 arms	Input Frequency	200-600
Output Frequency	50 Hz	Weight	25 Kg
Peak Current	200 apk	Protection	IP21 + DCA SCC3

Standard equipment

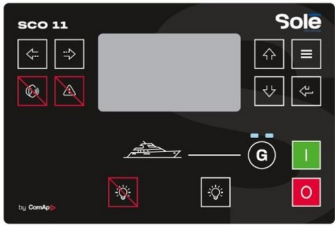
Electronic Actuator	Dual anti-vibration system
Inverter	Rigid bench
Power wiring and inverter communication	Alternator & Owner`s Manual
Extension of 5m transformer wiring	Packaging
MCU box and electrical wiring extension	Oil extraction pump
3 m electrical wiring extension	Cabin
SCO 11 Control Panel	

Optional accessories

Anti-siphon pack (mandatory if the generator is low in water)	Water/diesel decanter filter
On Board Pack (fuel and oil filters, impeller, belt)	Water/smoke separator
Water filters	Diesel hoses
Bottom taps	Exhaust hoses
Start-up Pack	Salt Water Hoses
Low coolant alarm	

* 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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Panel Comap SCO 11 VSC Solē



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
Multilingual
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
Panel cut-out 172 x 112 mm
Weight 450 g

Alarm Management

Shutdown (SD)
Low/High Speed
Overload*
Short Circuit*
Overcurrent*
High/Low Voltage
High/Low Frequency
Emergency Stop
Warnings (WRN)
High engine coolant temperature
Low oil pressure
High/Low Battery Voltage
Maintenance warning
Sensor failure detection (FLS)
MCU Alarm

Operating modes

OFF Mode
MAN Mode (manual start/stop engine)

Power Supply

Voltage supply 12/24 DC with fuse protection
Consumption 80mA (12V) or 51 (24V)

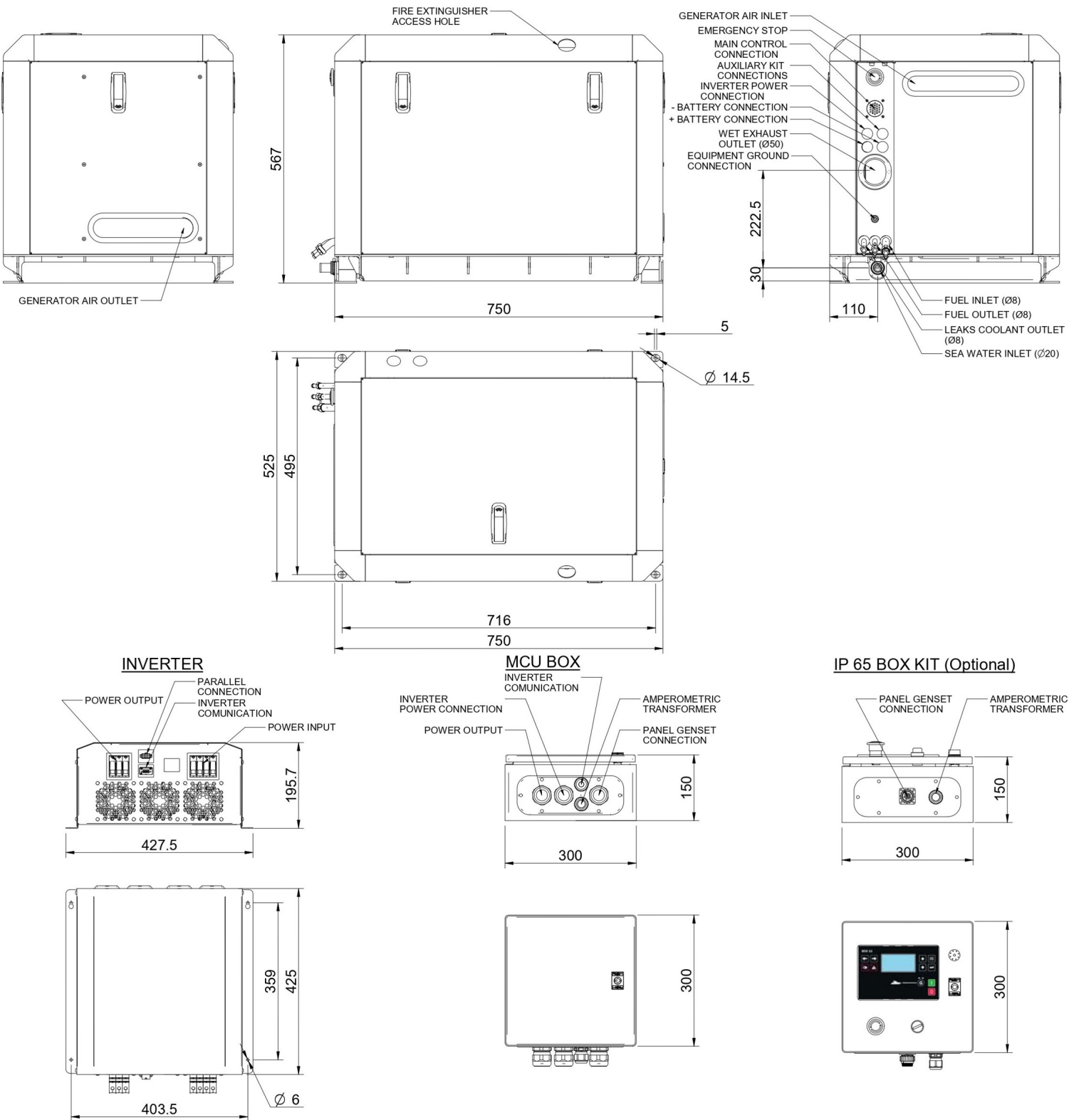
Operating Conditions

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
Power* (kW)
Apparent Power* (kVA)
Current* (A)
PF*
Historical Log
Alarm History

Dimensions



Detailed drawings, brochures and manuals are available on the web soleadvance.com.
 Technical specifications, data and presentation are subjected to variations, changes and updates without prior notice.
 Non-contractual information.

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 ISO 9001



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