



MARINE GENERATORS

4 GSCH V3

Single-Phase

General data

Maximum power*	3 kW (3 kVA)	Voltage	230 V
Prime Power**	2.7 kW	Amperage	13 A
Frequency	50 Hz	Phases	1

Dimensions and weights

Total length without canopy	-	Total length with canopy	590 mm
Total width without canopy	-	Total width with canopy	406 mm
Total height without canopy	-	Total height with canopy	515 mm
Dry weight without canopy	-	Dry weight with canopy	96 Kg

Engine

Base engine manufacturer	Yanmar	Diameter	78 mm (3.07 in)
Model	L70N5	Stroke	67 mm (2.64 in)
Type	Diesel, 4 stroke	Compression ratio	20:1
Engine RPM	3000	Injection system	Mechanical and direct
Number of cylinders	1	Intake system	Naturally aspirated
Total displacement	320 cc	SAE Flywheel housing	-
Oil	SAE 15W40	Coolant capacity	1.2 L (0.32 gal)
Oil capacity	1.2 L (0.32 gal)	Flywheel	-
Power	4.5 kW (6.12 CV)	Coolant flow rate	- (- gal/m)
Salt water flow rate	20 l/min (5.28 gal/m)	Intake air flow rate	0.4 m3/m
Exhaust type	Wet exhaust elbow	V-Belt Protection	-

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%	0.4 l/h (0.11 gal)	Fuel type	Diesel
Consumption 50%	0.7 l/h (0.18 gal)	Fuel standards	Fueloil diesel ASTM
Consumption 75%	1.1 l/h (0.29 gal)	Injection pump type	Individual
Consumption 100%	1.3 l/h (0.34 gal)	Governor type	Mechanical

Electrical system

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

Installation details

Exhaust hose inner diameter	45 mm (1.77 in)	Maximum fuel lift height	1 m (3.28 ft)
Sea water hose inner diameter	13 mm (0.51 in)	Maximum raw water lift height	1 m (39.37 in)
Fuel feeding hose inner diameter	8 mm (0.31 in)	Maximum sea water temperature	32 ° (89.6 °F)
Fuel return hose inner diameter	8 mm (0.31 in)	Maximum installation angle***	20 °
Minimum battery capacity	12 V 60 Ah		

Alternator details

Brand	MA4	Cos Phi	1
Model	VO90	Tropicalized	Yes
Regulator type	CAPACITOR	Excitation system	Brushless
Number of poles	2	Voltage regulation accuracy**	1
Isolation type*	-	Alternator type	Synchronous
IP protection	-	Standards	EN60034-1, IEC 60034-1, ISO 8528-3

Standard equipment

10 m electrical wiring extension	SCO 5 control panel
Oil extraction pump	Owner's and alternator manual
Rigid bed	Packaging
Anti Vibration Mounts	

Optional accessories

Siphon break kit mandatory if generator is below waterline	Water Filters
Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,...	Sea water cock
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.

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)

Operating modes

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

Power Supply

Voltage supply 12/24 DC with fuse protection
Consumption 60/35 mA

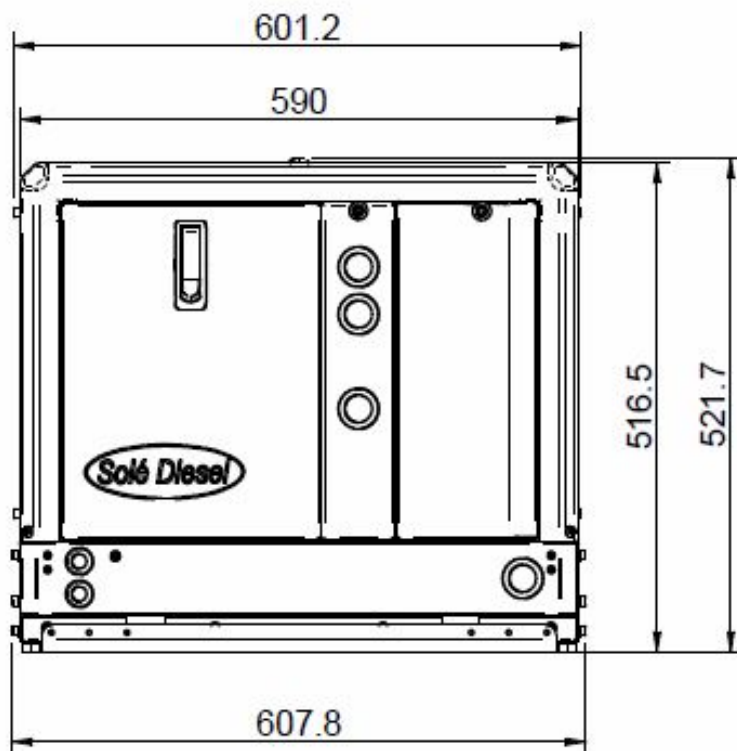
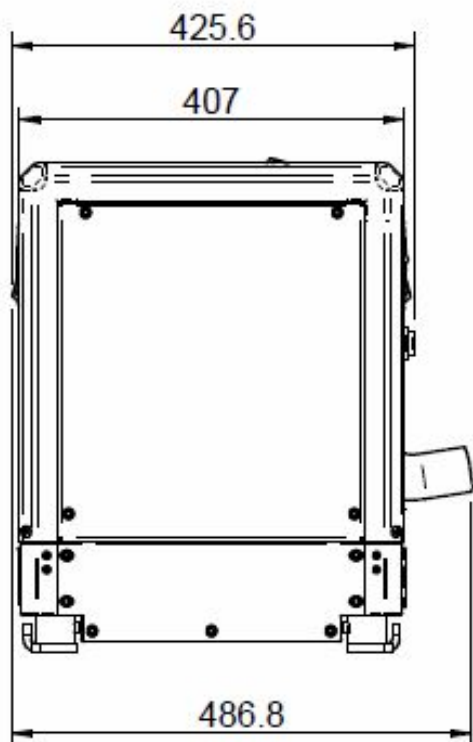
Operating Conditions

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

Dimensions



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