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 GENSET	**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

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 º (89.6 ºF)
Fuel return hose inner diameter	8 mm (0.31 in)	**Maximum installation angle*** **	20 º
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*	-	**Standards**	EN60034-1, IEC 60034-1, ISO 8528-3
IP protection	-	**Alternator type**	SÍNCRONO

Standard equipment

10 m electrical wiring extension	SCO 5 control panel
Oil extraction pump	Owner´s and alternator manual
Rigid bed	Packaging
Silentblocks	

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.
45461 - 6/24

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)

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)

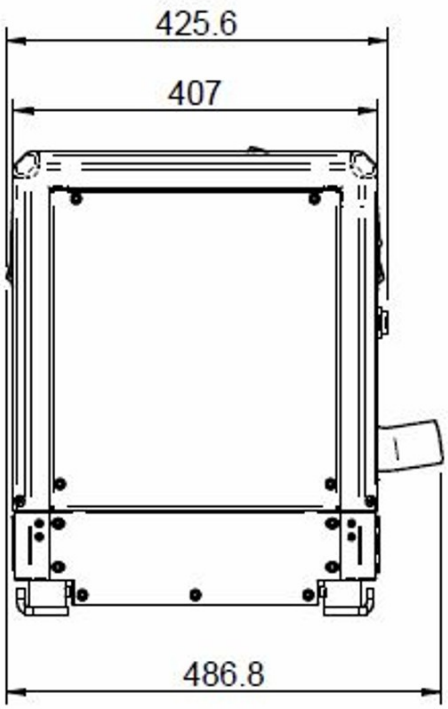
Display Information

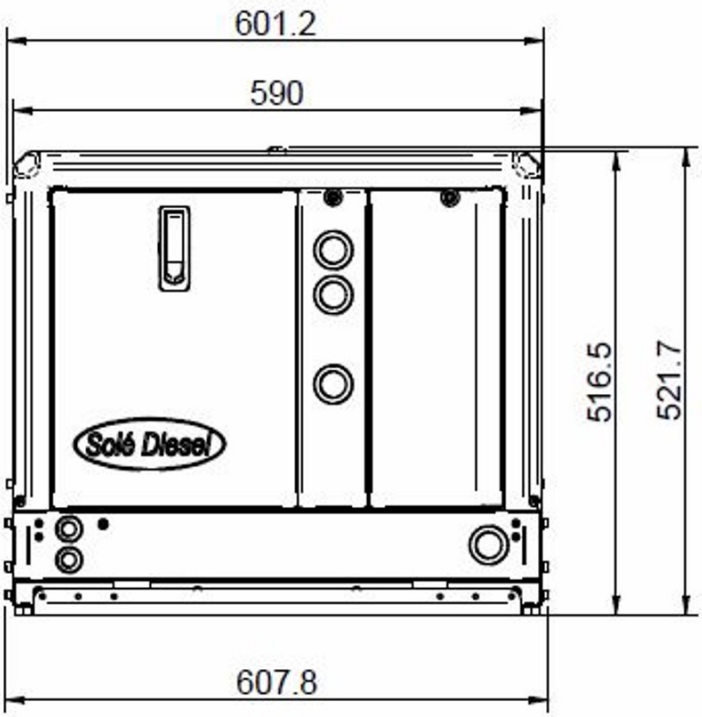
- Measurement
- L1-L3 Voltage (V), Frequency (Hz), Oil Pressure (bar)
- Coolant Temperature (°C), Battery voltage (V), RPM
- Active Power* (kW), Apparent, Power* (kVA), Current* (A), PF*
- History log

Operating modes

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

Dimensions





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