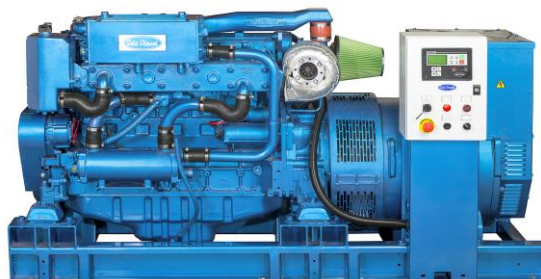


180 GTA/GTAC

Three-Phase



General data

Maximum power*:	144 kW (180 kVA)	Voltage:	480/277 V
Prime Power**:	131 kW	Amperage:	216 A
Frequency:	60 Hz	Phases:	3

Dimensions and weights

Total length without canopy:	2079 mm	Total length with canopy:	2350 mm
Total width without canopy:	804 mm	Total width with canopy:	865 mm
Total height without canopy:	1070 mm	Total height with canopy:	1146 mm
Dry weight without canopy:	1410 Kg	Dry weight with canopy:	1630 Kg

Engine

Base engine manufacturer:	Deutz	Diameter:	108 mm (4,25 in)
Model Solé Diesel:	SDZ-190E	Stroke:	130 mm (5,12 in)
Type:	4 No. of Strokes	Compression ratio:	17.5:1
Engine RPM:	1800	Injection system:	Mechanical and direct
Number of cylinders:	6	Intake system:	Turbocharged with intercooler
Total displacement:	7146 cc	SAE Flywheel housing:	SAE 3
Oil:	SAE 15W40	Coolant capacity:	23 L (6,08 gal)
Oil capacity:	23 L (6,08 gal)	Flywheel:	SAE 11 1/2
Power:	148 kW (201,28 CV)	Coolant flow rate:	162,1 l/min (42,82 gal/m)
Salt water flow rate:	130,4 l/min (34,45 gal/m)	Intake air flow rate:	12,2 m ³ /m
Exhaust type:	-	Belt protection:	Included

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.

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

Fuel system details

Consumption 25%:	14 L/H (3,7 Gal/H)	Fuel type:	Diesel
Consumption 50%:	27 L/H (7,13 Gal/H)	Fuel standards:	Fueloil diesel ASTM
Consumption 75%:	38,4 L/H (10,14 Gal/H)	Injection pump type:	Individual
Consumption 100%:	49,5 L/H (13,08 Gal/H)	Governor type:	Electronical

Electrical system

Battery voltage:	24 V	Stop solenoid type:	ETS
Starter motor:	4 kW	Alternator:	35 A
Earth isolated:	Included	IP 65 box kit:	Included
SCO 11 double panel:	Optional	Current transformers:	Included

Installation details

Exhaust hose inner diameter:	115 mm (4,53 in)	Maximum fuel lift height:	1,3 m (4,27 ft)
Sea water hose inner diameter:	42 mm (1,65 in)	Maximum raw water lift height:	3 m (118,11 in)
Fuel feeding hose inner diameter:	12 mm (0,47 in)	Maximum sea water temperature:	32 °C (89,6 °F)
Fuel return hose inner diameter:	12 mm (0,47 in)	Maximum installation angle***:	10 °
Minimum battery capacity:	24 V 143 Ah		

Alternator details

Brand:	Meccalte	Cos φ:	0,8
Model:	ECO38-1S/4A	Tropicalized:	Yes
Regulator type:	DSR	Excitation system:	BRUSHLESS
Number of poles:	4	Voltage regulation accuracy**:	1%
Isolation type*:	H	Standards:	EN60034-1, IEC 60034-1
IP protection*:	23	Alternator type:	Synchronous

Standard equipment

Earth isolated	Silentblocks
Amperometric transmitter kit	SCO 10 control panel
4 m electrical wiring extension	Owner`s and alternator manual
Oil extraction pump	Packaging
Rigid bed	

Optional accessories

Siphon break kit mandatory if generator is below waterline	Keel Cooling conversion for dry and wet exhaust
Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,...	Double walled pipes and alarm kit
Dry Exhaust system	Low coolant level shut down switch
Wet Exhaust System	Fuel filter/water separator
Water Filters	Gas/Water Separator
Sea water cock	Fuel Hose
Welcome Kit	Exhaust Hose
Kit Power Take-off	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 11 Panel



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
- Multilengüaje
- Event history log
- Genset protections (see Alarm Management)
- Preheating function
- D+ pre-excitation Terminal
- CAN bus information with SAE J1939 protocol
- Maintenance hours control
- Dimensions 195 x 135 x 47 mm
- Board Cutting 172 x 112 mm
- Weight 450 g

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 Battery voltage
- Maintenance request
- Sensor failure detection (FLS)

Operating modes

- 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 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
- Active Power* (kW), Apparent, Power* (kVA), Current* (A), PF*

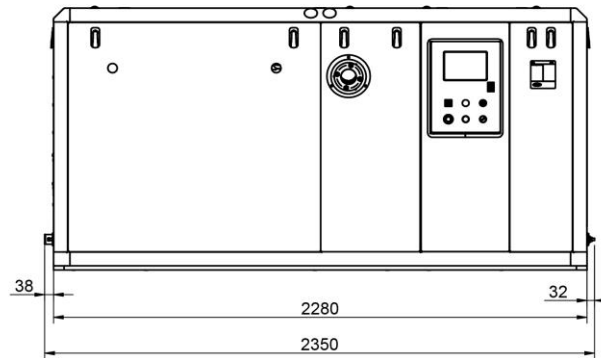
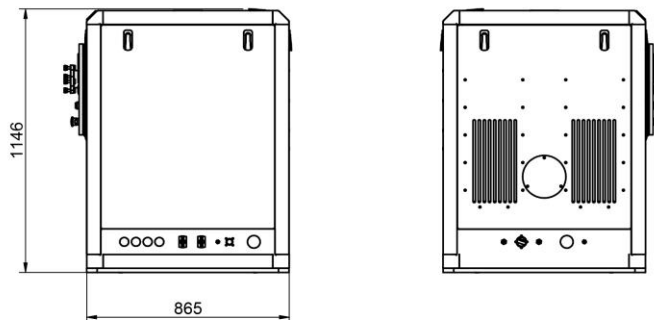
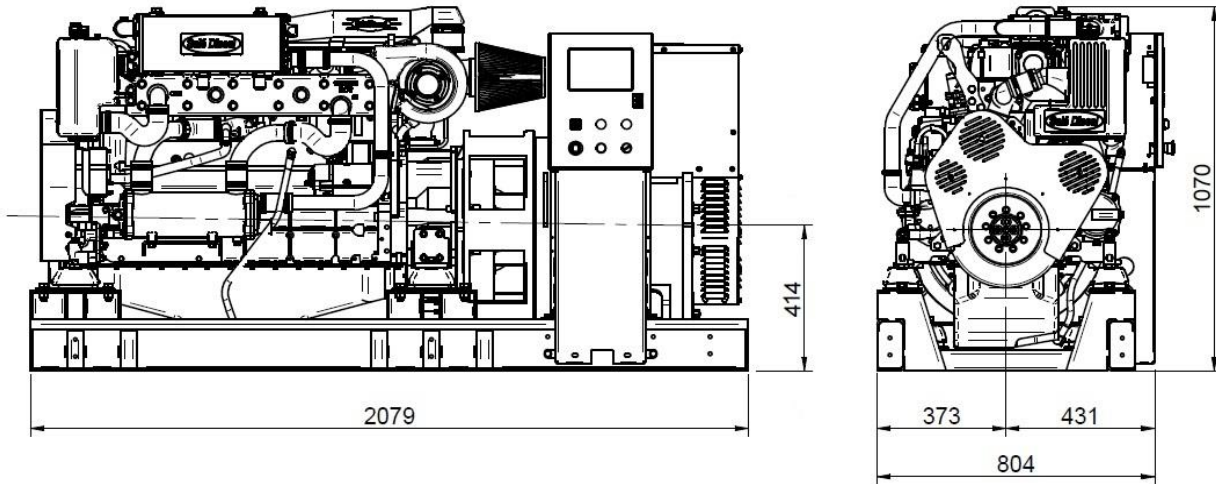
History log

Optional Equipment

- RS232-485 module for double danel
- Binary Inputs/Outputs extension module
- IG-IB Internet connection bridge
- IP65 metallic box protection kit

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

Dimensions



Authorized dealer

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info@solediesel.com

Detailed drawings, brochures and manuals are available on the web [solediesel.com](http://www.solediesel.com). All rights reserved. Technical specifications, data and presentation are subjected to variations, changes and updates without prior notice. Non-contractual information.