



General Description

Max Power¹ 68 kW (85 kVA)	Prime Power² 61,82 kW (77 kVA)	Frequency 50 Hz
Voltage 400 V / 230 V 230 V	Current intensity 123 Amps. 213,0 Amps.	Fase 3 phas.+neutr. 3 phas.

Dimensions and Weights

	Length	Width	Height	Weights
With canopy	1980 mm (77,95 in)	865 mm (34,06 in)	1048 mm (41,26 in)	1454 Kg (3206 Lbs)
Without canopy	1775 mm (69,86 in)	865 mm (34,06 in)	958 mm (37,7 in)	1330 Kg (2932 Lbs)

Engine

Engine base	Deutz	Bore	108 mm (4,25 in)
Solé Diesel engine model	SDZ - 165	Stroke	130 mm (5,12 in)
Type	4 Type	Compression ratio	19:1
RPM Engine	1500	Combustion system	Direct mechanical injection
Number of cylinders	4	Aspiration	Turbocharged
Displacement	4764 cc	Flywheel housing size	SAE 2
Oil type	ACEA E5, API CH-4/SJ,	Coolant capacity	17,5 L (4,62 Gal)
Oil capacity	0 L (0 Gal)	Flywheel size	SAE 11 1/2
Output power	81 kW (108,62 HP)	Coolant flow rate	0 L/Min.(0 Gal/Min.)
Raw water flow rate	11,21 L/Min.(2,96 Gal/	Engine combustion air requirements	5,49 m ³ /min
Requirements	6,6 m ³ /min.		

Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity and 25 °C (77° F))

* 1 Maximum Output Power: maximum power supplied by the genset at full load.

* 2 Prime Power: Rated Power according to ISO 3046 and ISO 8528-1. 10 % overload capacity one hour in twelve hours.

Fuel system

Typical Fuel Consumption

25 %	6 L/Hs. (1,59 Gal/Hs.)
50 %	10,5 L/Hs. (2,77 Gal/Hs.)
75 %	15,6 L/Hs. (4,12 Gal/Hs.)
100 %	21,3 L/Hs. (5,63 Gal/Hs.)

Fuel Type	Diesel
Fuel Quality	Diesel ASTM
Type of Injection Pump	0
Pump Regulator Type	

Engine electrical

Battery voltage	24 V	Fuel shutoff solenoid	ETS
Starter motor	4 kW	Alternator	35 A

Installation details

Ø int. Exhaust Hose (mm)	90 mm (3,54 in)	Maximum recommended fuel lift	1,3 m (4,26 ft)
Ø int. Raw Water Hose (mm)	38 mm (1,5 in)	Maximum recommended raw water lift	4,5 m (177,17 in)
Ø int. Fuel supply hose (mm)	12 mm (0,47 in)	Raw water maximum temperature	32 ° C (89,6 ° F)
Ø int. Fuel return hose (mm)	12 mm (0,47 in)	Maximum installation angle (°)***	10 °
Min. Battery capacity (Ah)	24 V 90 Amps/h		

Alternator Details

Brand	Meccalte	Cos φ	0,8
Model	ECP34-1S/4 IP23	Tropical Version	Standard
Regulator type	DSR	Excitation system	Brushless
# of poles	4	Voltage regulation Accuracy**	±1%
Insulation Type*	H	Standards	EN60034-1, IEC 60034-1
IP protection*	21	Frequency Regulation	Synchronous

Optional Equipment

- Siphon break kit - mandatory if generator is below waterline
- Engine electrical system at 24V
- Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,...
- Dry Exhaust system
- Exhaust System
- Water Filters
- Welcome Kit
- Keel Cooling conversion for dry and wet exhaust
- Double walled pipes and alarm kit
- Low coolant level shut down switch
- Fuel filter/water separator
- Gas/Water Separator
- Fuel Hose
- Exhaust Hose
- Raw water hose
- Sea cök

For other requirements please contact the Sales Dept.

* 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



Welcome Kit



General Description

- Graphic LCD with light, 128 x 64 pixels display
- 110 LED indicators
- Genset Measures (see Display Information)
- Configuration protected by password
- Running hour indication
- Multilanguage
- Genset protections (see Alarm Management)
- Preheating function
- D+ pre-excitation Terminal
- CAN bus information output with SAE J1939 protocol
- Dos temporizadores multiuso
- Dimensions 180 x 120 x 55 mm
- Weight 450g

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 voltage
- Maintenance request

Sensor Fails (FLS)

Function Description

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



IP 65 Box Kit

*The specified function needs the current transformers (Optional Equipment) for showing the information in SCO 10 panel display

Power Supply

- Voltage supply 12/24V DC with fuse protection
- Consumption 80/51mA

Operating Conditions

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

Standard Conformity

- Low Voltage Directive EN 61010-1:95 +A1:205 EN 61010-1:95 +A1:97
- Electromagnetic EN 50081-1:94, EN 50081-2:204 EN 50081-1:94, EN 50081-2:96
- Compatibility EN 50082-1:99, EN 50082-2:205 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, Voltage (V), rpm, Active Power* (kW), Apparent, Power* (kVA), Current* (A), PF*.

History log

Optional Equipment

SCO 10 Double panel

- SCO 10 Double panel allows the same operation and functionality as Main SCO 10. They are connected by RS485 port with a communication wire, available in 12/24/36 m.

IP65 Box Kit

- Electrical Box for SCO 10 panel with an IP65 protection code. In addition, it includes an emergency stop button and an on/off panel power switch.

Binary Input/Output extension module

IG-IB Internet communication bridge

- For Ethernet/Internet communications

Current transformers

- Current (A), Active Power (kW), Apparent power (kVA) and PF genset measures

Dimensions

