

## General Description

<b>Max Power<sup>1</sup></b> 54,688 kW ( 68,36 kVA )	<b>Prime Power<sup>2</sup></b> 49,72 kW ( 62 kVA )	<b>Frequency</b> 50 Hz
<b>Voltage</b> 400 V / 230 V 230 V	<b>Current intensity</b> 98,7 Amps. 171,0 Amps.	<b>Fase</b> 3 phas.+neutr. 3 phas.

## Dimensions and Weights

	Length	Width	Height	Weights
<b>With canopy</b>	1903 mm ( 74,92 in )	840 mm ( 33,07 in )	848 mm ( 33,39 in )	869 Kg ( 1915 Lbs )
<b>Without canopy</b>	1722 mm ( 67,78 in )	722 mm ( 28,42 in )	800 mm ( 31,5 in )	759 Kg ( 1672 Lbs )

## Engine

<b>Engine base</b>	Mitsubishi	<b>Bore</b>	94 mm ( 3,7 in )
<b>Solé Diesel engine model</b>	SM - 81	<b>Stroke</b>	120 mm ( 4,72 in )
<b>Type</b>	4 Type	<b>Compression ratio</b>	17:1
<b>RPM Engine</b>	1500	<b>Combustion system</b>	Direct injection pipe
<b>Number of cylinders</b>	6	<b>Aspiration</b>	Turbocharged
<b>Displacement</b>	4996 cc	<b>Flywheel housing size</b>	SAE 3
<b>Oil type</b>	SAE 15W40	<b>Coolant capacity</b>	8 L ( 2,11 Gal )
<b>Oil capacity</b>	11 L ( 2,91 Gal )	<b>Flywheel size</b>	SAE 11 1/2
<b>Output power</b>	59,6 kW ( 79,92 HP )	<b>Coolant flow rate</b>	70 L/Min.( 18,49 Gal/Min. )
<b>Raw water flow rate</b>	38 L/Min.( 10,04 Gal/Min. )	<b>Engine combustion air requirements</b>	4,2 m <sup>3</sup> /min
<b>Requirements</b>	70 m <sup>3</sup> /min.		

Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity abd 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 %	4,8 L/Hs. ( 1,27 Gal/Hs. )
50 %	7,8 L/Hs. ( 2,06 Gal/Hs. )
75 %	11 L/Hs. ( 2,91 Gal/Hs. )
100 %	14,5 L/Hs. ( 3,83 Gal/Hs. )

### Tipo de Combustible

Diesel

### Calidad de Combustible

Diesel ASTM

### Type of Injection Pump

In line type

### Pump Regulator Type

Centrifugal

## Engine electrical

### Battery voltage

12 V

### Starter motor

3 kW

### Earth Isolated

Yes

### Fuel shutoff solenoid

ETR

### Alternator

50 A

### Current Transformers

Yes,

## Installation details

Ø int. Exhaust Hose (mm)	90 mm ( 3,54 in )
Ø int. Raw Water Hose (mm)	32 mm ( 1,26 in )
Ø int. Fuel supply hose (mm)	10 mm ( 0,39 in )
Ø int. Fuel return hose (mm)	10 mm ( 0,39 in )
Min. Battery capacity (Ah)	12 V 99 Amps/h

Maximum recommended fuel lift	0,6 m ( 1,97 ft )
Maximum recommended raw water lift	2,5 m ( 98,43 in )
Raw water maximum temperature	32 ° C ( 89,6 ° F )
Maximum installation angle (°)***	15 °

## Alternator Details

Brand	MECCALTE
Model	ECP32-3L/4B
Regulator type	DSR
# of poles	4
Insulation Type*	H
IP protection*	23

Cos φ	0,8
Tropical Version	Standard
Excitation system	Brushless
Voltage regulation Accuracy**	±1%
Standards	EN 60034-1, IEC 34-1, ISO
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 cock

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
- 187 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

### 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 +A1:282 EN 61010-1:95 +A1:97
- Electromagnetic EN 50081-1:94, EN 50081-2:281 EN 50081-1:94, EN 50081-2:96
- Compatibility EN 50082-1:99, EN 50082-2:282 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

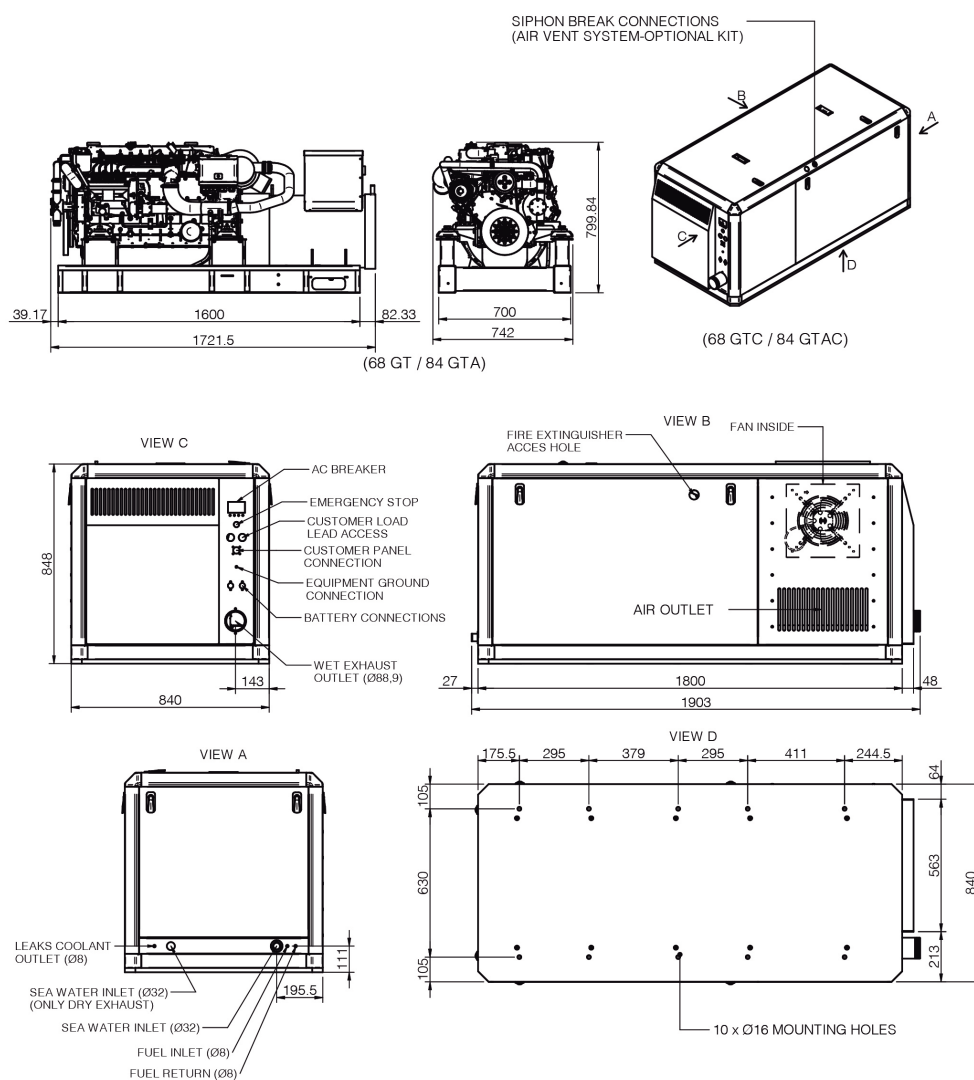
- For Ethernet/Internet communications

#### Current transformers

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

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

## Dimensions



Dimensions in millimetres  
This drawing is provided for reference only.