MARINE GENERATORS

G-25T-3 230V

Three-Phase

General data

Maximum power (2)	20 kW (25 kVA)	**Voltage**	400/230 V
Prime Power (3)	18.2 kWe	**Amperage**	36.1 A
Frequency	50 Hz	**Phases**	3

Dimensions and weights

Total length without canopy	1213 mm	**Total length with canopy**	0 mm
Total width without canopy	560 mm	**Total width with canopy**	0 mm
Total height without canopy	619 mm	**Total height with canopy**	0 mm
Dry weight without canopy	335 Kg	**Dry weight with canopy**	-

Engine

Base engine manufacturer	Mitsubishi	**Diameter**	78 mm (3.07 in)
Model	MINI-44	**Stroke**	92 mm (3.62 in)
Type	Diesel, 4 stroke	**Compression ratio**	22:1
Engine RPM	3000	**Injection system**	Mechanical and indirect
Number of cylinders	4	**Intake system**	Naturally aspirated
Total displacement	1758 cc	**SAE Flywheel housing**	SAE 5
Oil	SAE 15W40	**Coolant capacity**	8 L (2.11 gal)
Oil capacity	6 L (1.59 gal)	**Flywheel**	SAE 7 1/2
Power (1)	30.9 kW (42.02 CV)	**Coolant flow rate**	100 l/min (26.42 gal/m)
Salt water flow rate	33 l/min (8.72 gal/m)	**Intake air flow rate**	2.2 m3/m
Exhaust type	Wet exhaust elbow	**V-Belt Protection**	Optional

(1) Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity and 25 °C (77 ° F))
(2) Maximum output power: maximum power supplied by the genset at full load
(3) Prime Power: rated power according to ISO 3046 and ISO 8528-1. 10 % overload capacity one hour in twelve hours.
1 kW = 1,36 CV 1 kW = 1,36 HP (metric) 1 kW = 1,36 CH

Fuel system details

Consumption 25%	3.6 l/h (0.95 gal)	**Fuel type**	Diesel
Consumption 50%	5.1 l/h (1.35 gal)	**Fuel standards**	Fueloil diesel ASTM
Consumption 75%	6.5 l/h (1.72 gal)	**Injection pump type**	In line
Consumption 100%	7.8 l/h (2.06 gal)	**Governor type**	Mechanical

Electrical system

Battery voltage	12 V	**Stop solenoid type**	ETR
Starter motor	2 kW	**Alternator**	50 A
Earth isolated	Optional	**IP 65 box kit**	Optional
SCO 11 double panel	Optional	**Current transformers**	0

Installation details

Exhaust hose inner diameter	50 mm (1.97 in)	**Maximum fuel lift height**	0.3 m (0.98 ft)
Sea water hose inner diameter	20 mm (0.79 in)	**Maximum raw water lift height**	2.5 m (98.43 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	5 mm (0.2 in)	**Maximum installation angle (6)**	15 º
Minimum battery capacity	12 V 80 Ah		

Alternator details

Brand	Meccalte	**Cos Phi**	0,8
Model	ECP-28 2L/2	**Tropicalized**	Yes
Regulator type	DSR	**Excitation system**	Brushless
Number of poles	2	**Voltage regulation accuracy (5)**	1%
Isolation type (4)	H	**Alternator type**	Synchronous
IP protection	23	**Standards**	EN60034-1, IEC 60034-1

Standard equipment

4 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	Wet Exhaust System
Engine electrical system at 24 V	Water Filters
Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,...	Sea water cock
Dry Exhaust system	Welcome Kit

(4) Other protections available
(5) With load from 0 to 100%, speed variation from -2% up to +5%, power factor 0,8 linear and balanced load.
(6) In all directions
For other requirements please contact the Sales Dept.
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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
- Multilingual
- Event history log
- Genset protections (see Alarm Management)
- Preheating function
- D+ pre-excitation Terminal
- Built-in PLC function
- CAN bus information with SAE J1939 protocol
- Maintenance hours control
- Dimensions 195 x 135 x 47 mm
- Panel cut-out 172 x 112 mm
- Weight 450 g

Alarm Management

- Shutdown (SD)
- Low/High Speed
- Overload*
- Short Circuit*
- Overcurrent*
- High/Low Voltage
- High/Low Frequency
- Emergency Stop
- Warnings (WRN)
- High engine coolant temperature
- Low oil pressure
- High/Low Battery Voltage
- Maintenance warning
- Sensor failure detection (FLS)
- MCU Alarm

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
- Power* (kW)
- Apparent Power* (kVA)
- Current* (A)
- PF*
- Historical Log
- Alarm History

Operating modes

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

Dimensions