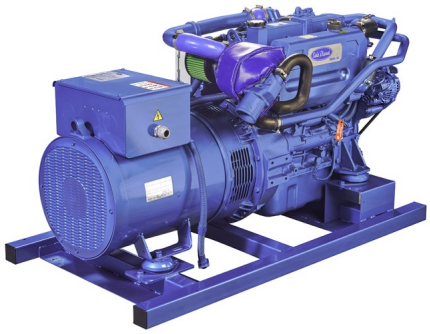


MARINE GENERATORS

45 GT/GTC ELECTRONIC GOV.

Three-Phase

General data

Maximum power (2)	36 kWe (45.0 kVA)	**Voltage**	400/230 V
Prime Power (3)	32.7 kWe (40.9 kVA)	**Amperage**	65 A
Frequency	50 Hz	**Phases**	3

Dimensions and weights

Total length without canopy	1428 mm	**Total length with canopy**	1605 mm
Total width without canopy	740 mm	**Total width with canopy**	740 mm
Total height without canopy	785 mm	**Total height with canopy**	841 mm
Dry weight without canopy	560 Kg	**Dry weight with canopy**	598 Kg

Engine

Base engine manufacturer	Mitsubishi	**Diameter**	94 mm (3.7 in)
Model	SM-56	**Stroke**	120 mm (4.72 in)
Type	Diesel, 4 stroke	**Compression ratio**	17:1
Engine RPM	1500	**Injection system**	Mechanical and direct
Number of cylinders	4	**Intake system**	Turbocharged
Total displacement	3331 cc	**SAE Flywheel housing**	SAE 3
Oil	SAE 15W40	**Coolant capacity**	13 L (3.43 gal)
Oil capacity	10 L (2.64 gal)	**Flywheel**	SAE 11 1/2
Power (1)	40.5 kW (55.08 CV)	**Coolant flow rate**	105 l/min (27.74 gal/m)
Salt water flow rate	38 l/min (10.04 gal/m)	**Intake air flow rate**	2.9 m3/m
Exhaust type	Wet exhaust elbow	**V-Belt Protection**	Optional
Emission compliance	-		

(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%	3.2 l/h (0.85 gal)	**Fuel type**	Diesel
Consumption 50%	5.2 l/h (1.37 gal)	**Fuel standards**	Fueloil diesel ASTM
Consumption 75%	7.4 l/h (1.95 gal)	**Injection pump type**	In line
Consumption 100%	9.7 l/h (2.56 gal)	**Governor type**	Mechanical

Electrical system

Battery voltage	12 V	**Stop solenoid type**	ETR
Starter motor	2.2 kW	**Alternator**	50 A
Earth isolated	Included	**IP 65 box kit**	Optional
SCO 11 double panel	Optional	**Current transformers**	Optional

Installation details

Exhaust hose inner diameter	75 mm (2.95 in)	**Maximum fuel lift height**	0.3 m (0.98 ft)
Sea water hose inner diameter	32 mm (1.26 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 ° (89.6 °F)
Fuel return hose inner diameter	8 mm (0.31 in)	**Maximum installation angle (6)**	15 °
Minimum battery capacity	12 V 95 Ah		

Alternator details

Brand	Meccalte	**Cos Phi**	0,8
Model	ECP32 1M 4 C	**Tropicalized**	Yes
Regulator type	DSR	**Excitation system**	Brushless
Number of poles	4	**Voltage regulation accuracy (5)**	0,01
Isolation type (4)	H	**Alternator type**	Synchronous
IP protection	23	**Standards**	EN60034-1, IEC 60034-1

Standard equipment

Insulated ground wire	SCO11 control panel
Silentblocks	6 m electrical wiring extension
Oil extraction pump	User manual
Electronic actuator	Packaging

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.

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)

Optional: Parallel Kit Electrical Cabinet

General Description

- Control and Power box for parallel operation
- COMAP Inteligen200 Panel (See Panel Features)
- Current Transformers (See Alternator Measurements)
- Power Isolating Switch
- Automatic Synchronism
- Marine Generator Set Protections (See Alarm Management)
- Power and Control Electrical Protection
- Communication Control Cable Extensions (See Extensions)
- Power inputs and outputs
- Automatic or manual control switch
- Audible and visual alarm
- Can BUS communication with the control unit and the parallel box
- Emergency Stop button
- IP 65 Protection

Alarm Management

- Shut-down (SD)
- High engine coolant temperature
- Low oil pressure
- Over speed
- Overload
- Short circuit
- Battery charge failure
- High/low voltage
- High/Low Frequency
- Emergency stop button
- Remote alarms
- Warnings (WRN)
- High engine coolant temperature
- Low oil pressure
- High/low battery voltage
- Maintenance warning

Alternator Measurements

- Current transformers
- Allows the following readings:
- Current (A), Active Power (kW), Apparent Power (kVA) and PF
- Earth isolated transformers

Extension

- Control wiring. Box-Group (6/12/24 m)
- Mitsubishi / Deutz
- 60974209 / 60994210P - 6 m
- 60974212 / 60994212P - 12 m
- 60974213 / 60994213P - 24 m
- Wiring for communication between boxes (3/6/12 m)
- 60994503 - 3 m
- 60994522 - 6 m
- 60994521 - 12 m
- Remote panel extension (12/24/36 m)
- 60972104 - 12 m
- 60972105 - 24 m
- 60972110 - 36 m

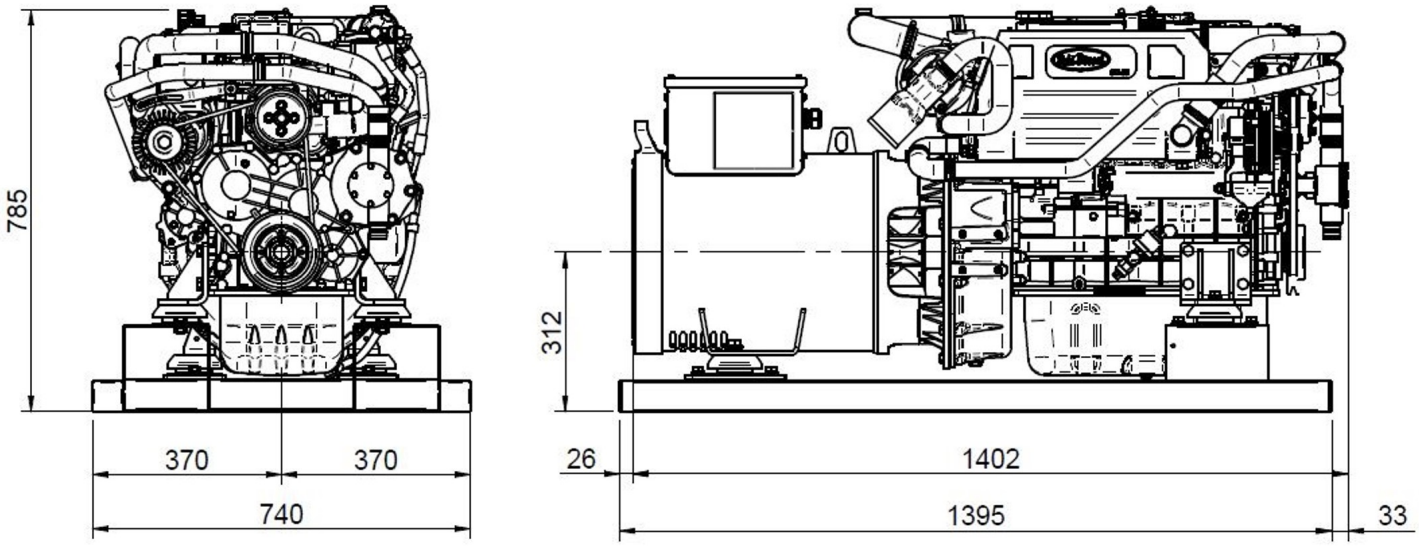
Inteligen200 Panel Features

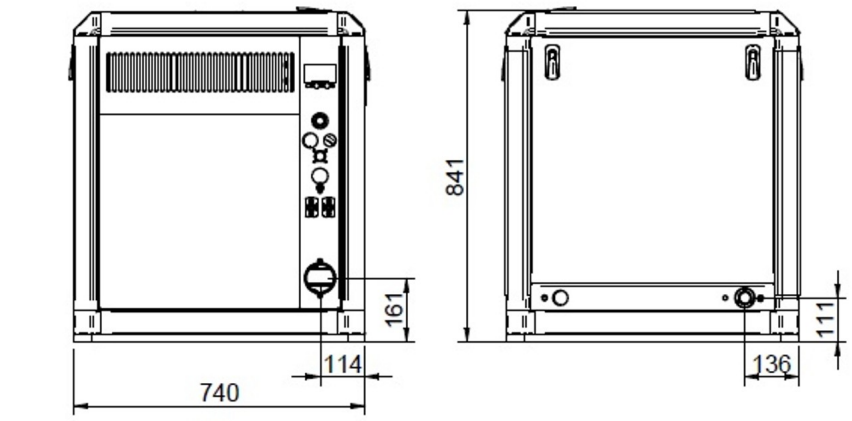
- Group and load Synchronization
- Marine generator set measures
- L1-L3 Voltage (V), frequency (Hz), Oil pressure (bar)
- Coolant temperature (ºC), battery voltage (V), RPM
- Power* (kW), Apparent Power* (kVA), Current* (A), PF*
- Remote panel
- 2 x 10 A Binary outputs
- History log
- Running hour indicator
- Multilanguage
- Configuration protected by password
- Integrated PLC
- Communication and Extension Module Plug-in
- 4G/LTE communication standard
- GPS

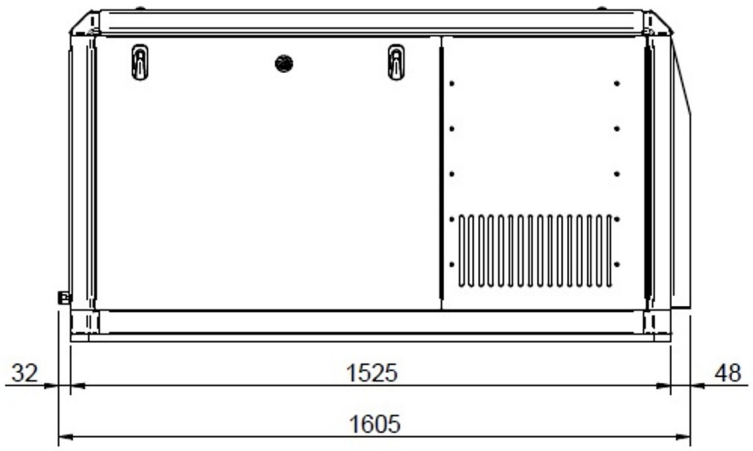
Optional Equipment

- Inteligen200 Remote Double Panel
- It allows the same operation and functionality as main Inteligen200
- They are connected with an RS485 port
- Remote panel extension (12/24/36 m)
- Binary and Communication Input/Output Extension Module

Dimensions







Authorized dealer

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Non-contractual information.

CERTIFIED ISO 9001