

## MARINE GENERATORS

# 165 GT/GTC ELECTRONIC GOVERNOR

Three-Phase

### General data

<b>Maximum power*</b>	125.6 kW (157 kVA)	<b>Voltage</b>	400/230 V
<b>Prime Power**</b>	114.2 kW	<b>Amperage</b>	226.8 A
<b>Frequency</b>	50 Hz	<b>Phases</b>	3

### Dimensions and weights

<b>Total length without canopy</b>	2079 mm	<b>Total length with canopy</b>	2350 mm
<b>Total width without canopy</b>	804 mm	<b>Total width with canopy</b>	865 mm
<b>Total height without canopy</b>	1070 mm	<b>Total height with canopy</b>	1146 mm
<b>Dry weight without canopy</b>	1410 Kg	<b>Dry weight with canopy</b>	1630 Kg

### Engine

<b>Base engine manufacturer</b>	Deutz	<b>Diameter</b>	108 mm (4.25 in)
<b>Model</b>	SDZ-175E	<b>Stroke</b>	130 mm (5.12 in)
<b>Type</b>	Diesel, 4 stroke	<b>Compression ratio</b>	17.5:1
<b>Engine RPM</b>	1500	<b>Injection system</b>	Mechanical and direct
<b>Number of cylinders</b>	6	<b>Intake system</b>	Turbocharged intercooler
<b>Total displacement</b>	7146 cc	<b>SAE Flywheel housing</b>	SAE 3
<b>Oil</b>	SAE 15W40	<b>Coolant capacity</b>	23 L (6.08 gal)
<b>Oil capacity</b>	23 L (6.08 gal)	<b>Flywheel</b>	SAE 11 1/2
<b>Power</b>	128.5 kW (174.76 CV)	<b>Coolant flow rate</b>	141.5 l/min (37.38 gal/m)
<b>Salt water flow rate</b>	107.4 l/min (28.37 gal/m)	<b>Intake air flow rate</b>	10.2 m3/m
<b>Exhaust type</b>	Dry exhaust	<b>V-Belt Protection</b>	Included

Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity abd 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.

Fuel system details

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

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## Fuel system details

<b>Consumption 25%</b>	10.4 l/h (2.75 gal)	<b>Fuel type</b>	Diesel
<b>Consumption 50%</b>	20 l/h (5.28 gal)	<b>Fuel standards</b>	Fueloil diesel ASTM
<b>Consumption 75%</b>	28.5 l/h (7.53 gal)	<b>Injection pump type</b>	Individual
<b>Consumption 100%</b>	36.7 l/h (9.7 gal)	<b>Governor type</b>	Electronical

## Electrical system

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

## Installation details

<b>Exhaust hose inner diameter</b>	115 mm (4.53 in)	<b>Maximum fuel lift height</b>	1.3 m (4.27 ft)
<b>Sea water hose inner diameter</b>	42 mm (1.65 in)	<b>Maximum raw water lift height</b>	2.5 m (98.43 in)
<b>Fuel feeding hose inner diameter</b>	12 mm (0.47 in)	<b>Maximum sea water temperature</b>	32 ° (89.6 °F)
<b>Fuel return hose inner diameter</b>	12 mm (0.47 in)	<b>Maximum installation angle***</b>	10 °
<b>Minimum battery capacity</b>	24 V 143 Ah		

## Alternator details

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

## Standard equipment

Free mass	SCO11 Control Panel
Jockstrappers	Extension for electronic regulation group 6 m
Oil extraction pump	Manual groups in parallel
Electric actuator	Packing

## Optional accessories

Siphon break kit mandatory if generator is below waterline	Water Filters
Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,...	Sea water cock
Dry Exhaust system	Welcome Kit
Wet Exhaust System	Kit Power Take-off

\* 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
Built-in PLC function
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)

## 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

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

## Optional Equipment

Inteligen200 Remote Double Panel
It allows the same operation and functionality as main Inteligen200
They are connected with an RS485 port

## Alternator Measurements

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

## Extension

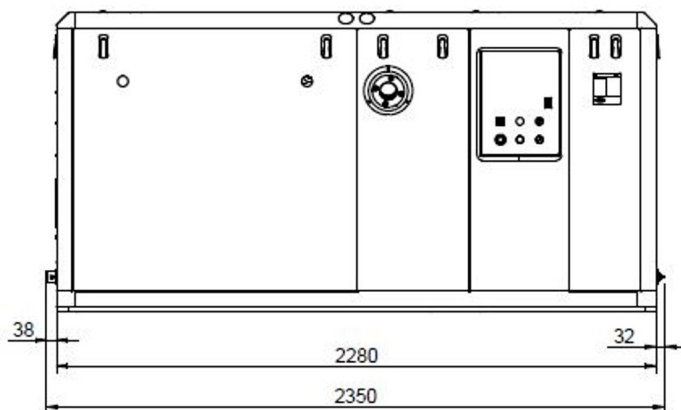
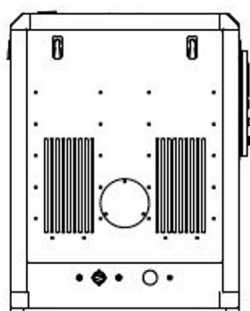
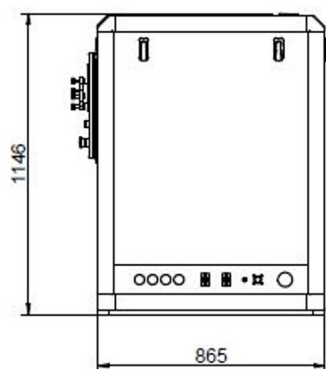
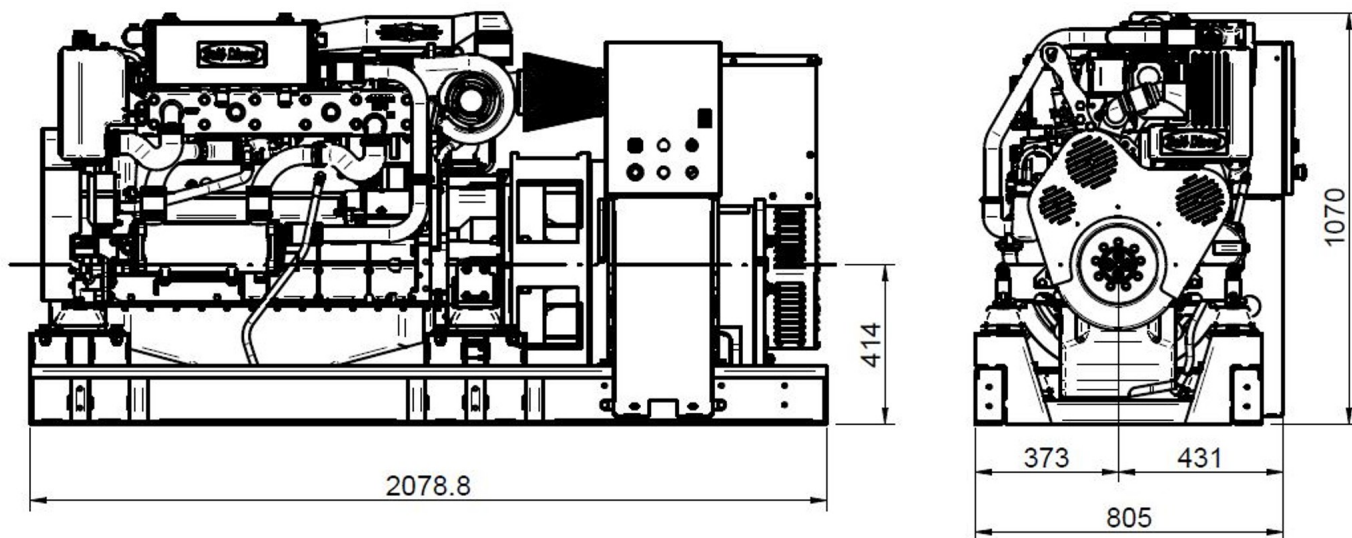
Control wiring. Box-Group (6/12/24 m)
Mitsubishi / Deutz
60974209 / 60994210P - 6 m
60974212 / 60994212P - 12 m
60974213 / 60994213P - 24 m
Wiring for communication between boxes (3/6/12 m)
60994503 - 3 m
60994522 - 6 m
60994521 - 12 m
Remote panel extension (12/24/36 m)
60972104 - 12 m
60972105 - 24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

Remote panel extension (12/24/36 m)
Binary and Communication Input/Output Extension Module

## Dimensions



Authorized dealer



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