MARINE GENERATORS

85 GT/GTC TAC

Three-Phase

General data

Maximum power (2)	74.8 kWe (93.5 kVA)	**Voltage**	400 V
Prime Power (3)	68 kWe (85.0 kVA)	**Amperage**	134.96 A
Frequency	50 Hz	**Phases**	3

Dimensions and weights

Total length without canopy	1773 mm	**Total length with canopy**	2138 mm
Total width without canopy	899 mm	**Total width with canopy**	865 mm
Total height without canopy	970 mm	**Total height with canopy**	1048 mm
Dry weight without canopy	998 Kg	**Dry weight with canopy**	1110 Kg

Engine

Base engine manufacturer	Deutz	**Diameter**	108 mm (4.25 in)
Model	SDZ-109E	**Stroke**	130 mm (5.12 in)
Type	Diesel, 4 stroke	**Compression ratio**	19:1
Engine RPM	1500	**Injection system**	-
Number of cylinders	4	**Intake system**	Turbocharged
Total displacement	4764 cc	**SAE Flywheel housing**	SAE 2
Oil	SAE 15W40	**Coolant capacity**	17.5 L (4.62 gal)
Oil capacity	11 L (2.91 gal)	**Flywheel**	SAE 11 1/2
Power (1)	80.5 kW (109.48 HP)	**Coolant flow rate**	141.45 l/min (37.37 gal/m)
Salt water flow rate	107.43 l/min (28.38 gal/m)	**Intake air flow rate**	5.5 m3/m
Exhaust type	Wet exhaust elbow	**V-Belt Protection**	Included
Emission compliance	No emissions		

(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%	6 l/h (1.59 gal)	**Fuel type**	Diesel
Consumption 50%	10.5 l/h (2.77 gal)	**Fuel standards**	Fueloil diesel ASTM
Consumption 75%	15.6 l/h (4.12 gal)	**Injection pump type**	Individual
Consumption 100%	21.3 l/h (5.63 gal)	**Governor type**	Electronical

Electrical system

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

Installation details

Exhaust hose inner diameter	90 mm (3.54 in)	**Maximum fuel lift height**	1.3 m (4.27 ft)
Sea water hose inner diameter	42 mm (1.65 in)	**Maximum raw water lift height**	4 m (157.48 in)
Fuel feeding hose inner diameter	G3/8	**Maximum sea water temperature**	32 ° (89.6 °F)
Fuel return hose inner diameter	G3/8	**Maximum installation angle (6)**	10 °
Minimum battery capacity	24 V 90 Ah		

Alternator details

Brand	Meccalte	**Cos Phi**	0,8
Model	ECP34 1S 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

Earth isolated	V-Belt Protection
Double wall injection pipes and fuel leak alarm	Spray stop kit
Dual fuel filter	Sensors certified by the rating company
CO-40 panel for engine/primer mover	Reinforced bed and silentblocks
Electronic regulator	6 m wiring extension
Electronic actuator	Packaging
Documentation: manual, test, declaration of conformity	Oil extraction pump

Optional accessories

Siphon break kit mandatory if generator is below waterline	Keel Cooling conversion for dry and wet exhaust
Engine electrical system at 24 V	Electronic regulator
Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,...	Electronic actuator
Dry Exhaust system	Exhaust Hose
Exhaust System	

(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.
46275 - 9/26

COMAP PANEL SCO 40

General Description

Control, monitoring and protection for marine engines
(signal alternator not included)
For Emergency, Auxiliary, Harbor and Propulsion engines
Redundant module ID-RPU with hardwired safety
functions activated in backup mode
Switching between primary and secondary battery
(with ID-RPU module)
Connection to engine via J1939 and backup J1587 buses
Event driven History record
14 binary inputs, 14 binary outputs, 8 analog inputs
Slave panels for remote control
Type approval from major certification societies
Configuration protected by password
Running hour indication
Multilanguage
D+ pre-excitation Terminal

Alarm Management

1 Emergency stop input
5 Shutdown inputs
1 RPM input
Common warning and common shutdown output terminals
Stop solenoid, fuel solenoid outputs
Redundant power supply
I/O broken wire detection

Alternator Measurements

180 x 120 mm front panel mounted case
Weight 800g
Graphic black-lit LCD display 128x64 pixel resolution with icons
and bar graphs
LED status indicators / Lamp test
Protection front panel IP65

Extension

Oil Pressure (bar)
Oil Temperature (°C)
Coolant Temperature (°C)
Coolant Pressure (bar)
Battery Voltage (V)
RPM
History log

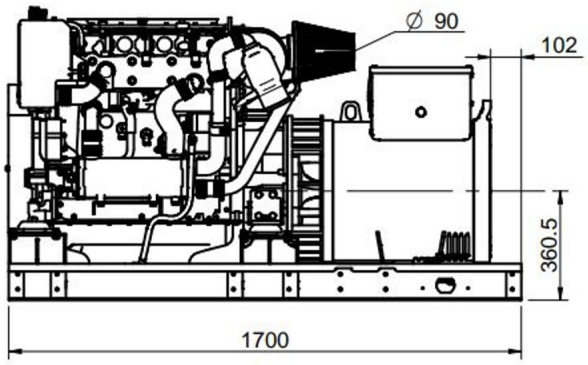
Inteligen200 Panel Features

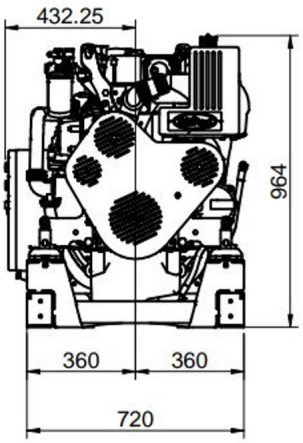
High coolant temperature
High oil temperature
Fuel leakages
Low oil pressure
Low coolant pressure
Overspeed
Emergency stop
Low battery voltage
Maintenance request
Sensor Fails (FLS)

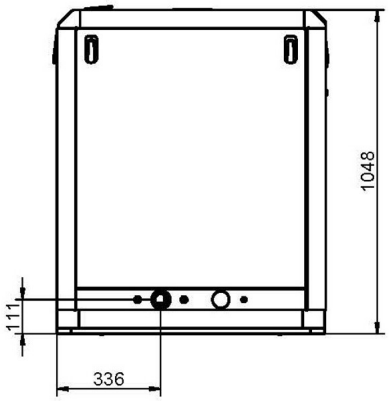
Optional Equipment

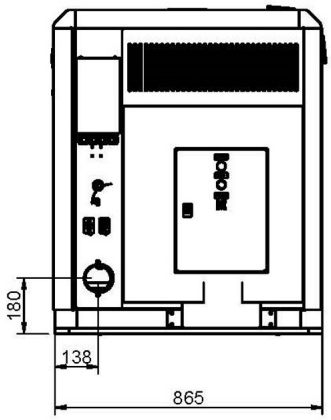
Power supply: Nominal power supply 24 VDC
Power supply range 6 - 36 VDC
Current consumption (depends on supply voltage)
0,34 A at 8 VDC 0,12 A at 24 VDC 0,09 A at 36 VDC
Battery voltage measurement tolerance 2% at 24 V
RTC battery life-cycle 10 year
Operating temperature -10 to +70 °C
Storage temperature -30 to +80 °C
Humidity 95% Without condensation
Flash memory data retention time 10 years
Standard Conformity
Low Voltage Directive
EN 61010-1:95 +A1:97
Electromagnetic Compatibility
EN 61000-6-2, October 2001
EN 61000-6-4, October 2001
IEC 60533, Ed. 2; 1999-11

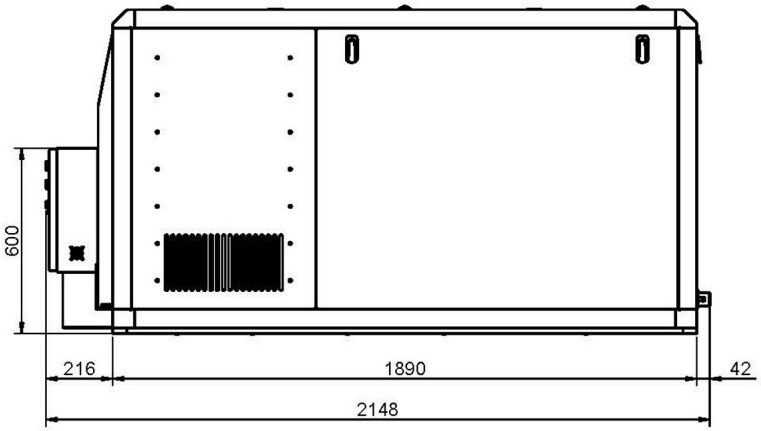
Dimensions











Authorized dealer

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