MARINE GENERATORS

120 GTA/GTAC TAC

Three-Phase

General data

Maximum power*	101.2 kW (126.5 kVA)	**Voltage**	480 V
Prime Power**	92 kW	**Amperage**	152.16 A
Frequency	60 Hz	**Phases**	3

Dimensions and weights

Total length without canopy	1771 mm	**Total length with canopy**	2148 mm
Total width without canopy	899 mm	**Total width with canopy**	865 mm
Total height without canopy	1010 mm	**Total height with canopy**	1048 mm
Dry weight without canopy	1020 Kg	**Dry weight with canopy**	1127 Kg

Engine

Base engine manufacturer	Deutz	**Diameter**	108 mm (4.25 in)
Model	SDZ-165E	**Stroke**	130 mm (5.12 in)
Type	Diesel, 4 stroke	**Compression ratio**	19:1
Engine RPM	1800	**Injection system**	Electronic and direct
Number of cylinders	4	**Intake system**	Turbocharged intercooler
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	106.5 kW (144.84 CV)	**Coolant flow rate**	162.1 l/min (42.82 gal/m)
Salt water flow rate	130.4 l/min (34.45 gal/m)	**Intake air flow rate**	7.8 m3/m
Exhaust type	Wet exhaust elbow	**V-Belt Protection**	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

Consumption 25%	8.3 l/h (2.19 gal)	**Fuel type**	Diesel
Consumption 50%	14.5 l/h (3.83 gal)	**Fuel standards**	Fueloil diesel ASTM
Consumption 75%	21.1 l/h (5.57 gal)	**Injection pump type**	Individual
Consumption 100%	28 l/h (7.4 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*** **	10 °
Minimum battery capacity	24 V 143 Ah		

Alternator details

Brand	Meccalte	**Cos Phi**	0,8
Model	ECP34 1M 4 C	**Tropicalized**	Yes
Regulator type	DSR	**Excitation system**	Brushless
Number of poles	4	**Voltage regulation accuracy****	0,01
Isolation type*	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	

* 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.
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CO 40 panel

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 primary 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

Power Supply

- 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

Operating Conditions

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

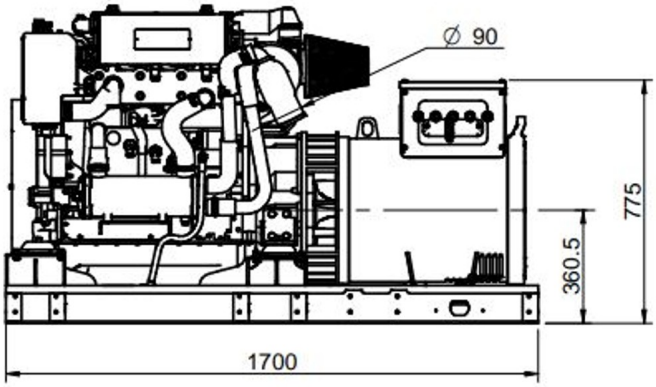
Display Information

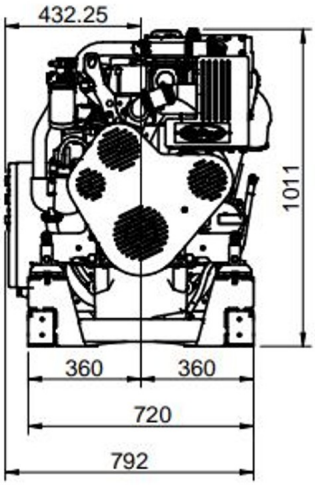
- High coolant temperature
- High oil temperature
- Fuel leakages
- Low oil pressure
- Low coolant pressure
- Overspeed
- Emergency stop
- Low battery voltage
- Maintenance request
- Sensor Fails (FLS)

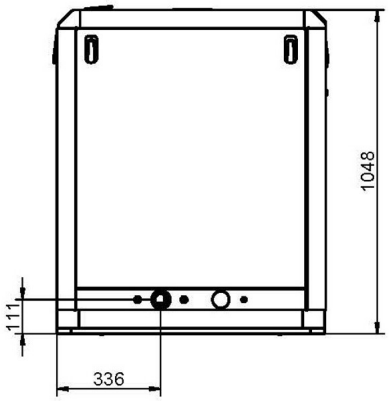
Operating modes

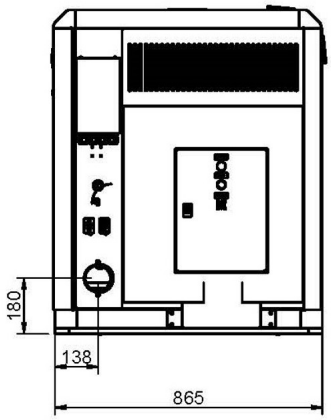
- Power supply: Nominal power supply 24 VDC
- Power supply range 6 - 36 VDC
- Current consumption (depends on supply voltage)
- 0,34 A at 8 VDC 0,12 A at 24 VDC 0,09 A at 36 VDC
- Battery voltage measurement tolerance 2% at 24 V
- RTC battery life-cycle 10 year
- Operating temperature -10 to +70 °C
- 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

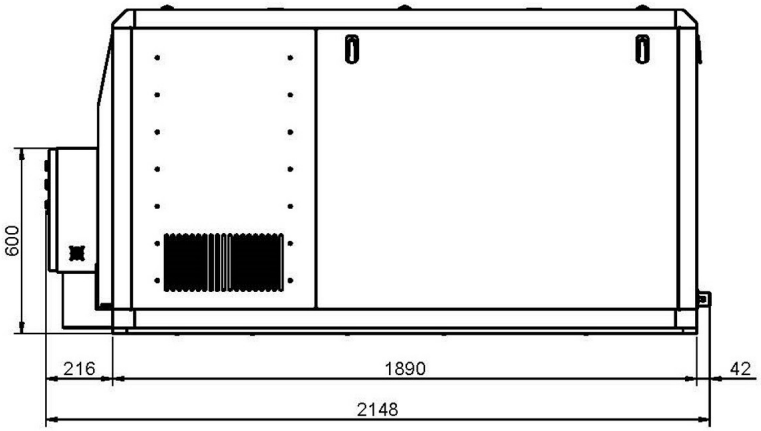
Dimensions











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