

MARINE GENERATORS

120 GTA/GTAC TAC ELECTRONIC GOVERNOR

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	1010 Kg	Dry weight with canopy	1117 Kg

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Engine			
Base engine manufacturer	Deutz	Diameter	108 mm (4.25 in)
Model	SDZ-165E	Stroke	130 mm (5.12 in)
Туре	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

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*	Н	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	Exhaust System
Engine electrical system at 24 V	Keel Cooling conversion for dry and wet exhaust
Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,	Exhaust Hose
Dry Exhaust system	Water Filters

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^{*} 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.

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
1 117

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

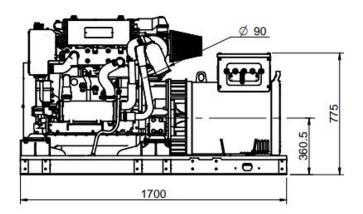
Display Information

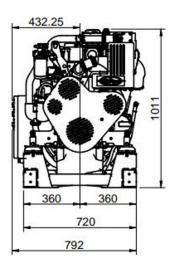
High coolant temperature	
High oil temperature	
Fuel leakages	
Low oil pressure	
Low coolant pressure	
Overspeed	
Emergency stop	
Low battery voltage	
Maintenance request	
Sensor Fails (FLS)	

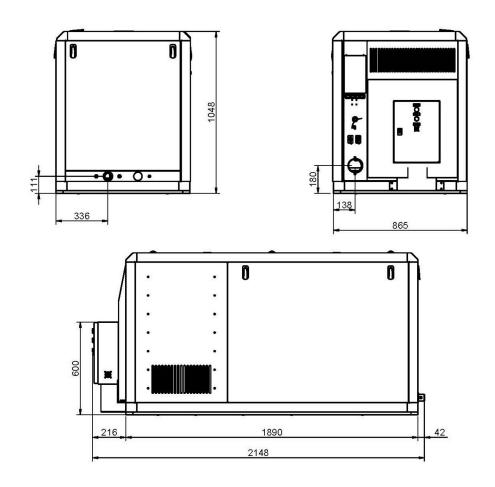
Operating modes

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

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