MARINE GENERATORS

20 GTA/GTAC TAC

Three-Phase

General data

Maximum power (2)	14.96 kWe (18.7 kVA)	**Voltage**	480 V
Prime Power (3)	13.6 kWe (17.0 kVA)	**Amperage**	22.49 A
Frequency	60 Hz	**Phases**	3

Dimensions and weights

Total length without canopy	1036 mm	**Total length with canopy**	1181 mm
Total width without canopy	580 mm	**Total width with canopy**	580 mm
Total height without canopy	612 mm	**Total height with canopy**	668 mm
Dry weight without canopy	282 Kg	**Dry weight with canopy**	344 Kg

Engine

Base engine manufacturer	Mitsubishi	**Diameter**	78 mm (3.07 in)
Model	MINI-44	**Stroke**	92 mm (3.62 in)
Type	Diesel, 4 stroke	**Compression ratio**	22:1
Engine RPM	1800	**Injection system**	Mechanical and indirect
Number of cylinders	4	**Intake system**	Naturally aspirated
Total displacement	1758 cc	**SAE Flywheel housing**	SAE 5
Oil	SAE 15W40	**Coolant capacity**	8 L (2.11 gal)
Oil capacity	6 L (1.59 gal)	**Flywheel**	SAE 7 1/2
Power (1)	17.7 kW (24.07 CV)	**Coolant flow rate**	100 l/min (26.42 gal/m)
Salt water flow rate	33 l/min (8.72 gal/m)	**Intake air flow rate**	2.2 m3/m
Exhaust type	Wet exhaust elbow	**V-Belt Protection**	Included
Emission compliance	RCD 2 (DIR. 2013/53/EU), BSO II		

(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%	2.1 l/h (0.55 gal)	**Fuel type**	Diesel
Consumption 50%	2.9 l/h (0.77 gal)	**Fuel standards**	Fueloil diesel ASTM
Consumption 75%	3.9 l/h (1.03 gal)	**Injection pump type**	In line
Consumption 100%	5.2 l/h (1.37 gal)	**Governor type**	Mechanical

Electrical system

Battery voltage	12 V	**Stop solenoid type**	ETR
Starter motor	1.7 kW	**Alternator**	120 A
Earth isolated	Included	**IP 65 box kit**	Optional
SCO 11 double panel	Optional	**Current transformers**	Optional

Installation details

Exhaust hose inner diameter	50 mm (1.97 in)	**Maximum fuel lift height**	0.3 m (0.98 ft)
Sea water hose inner diameter	20 mm (0.79 in)	**Maximum raw water lift height**	3 m (118.11 in)
Fuel feeding hose inner diameter	G3/8	**Maximum sea water temperature**	32 ° (89.6 °F)
Fuel return hose inner diameter	1/4 BSPT	**Maximum installation angle (6)**	15 °
Minimum battery capacity	12 V 80 Ah		

Alternator details

Brand	Sincro	**Cos Phi**	0,8
Model	SK 160 MB	**Tropicalized**	Yes
Regulator type	BL4	**Excitation system**	Brushless
Number of poles	4	**Voltage regulation accuracy (5)**	1%
Isolation type (4)	H	**Alternator type**	Synchronous
IP protection	23	**Standards**	EN 60034-1, IEC 60034-1, ISO 8528-3

Standard equipment

Earth isolated	Spray stop kit
Double wall injection pipes and fuel leak alarm	Sensors certified by the rating company
Dual fuel filter kit	Reinforced bed and silentblocks
CO-40 panel for engine/prime mover	6 m wiring extension
Documentation: manual, test, declaration of conformity	Packaging
V-Belt Protection	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.
46224 - 7/26

COMAP PANEL CO 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

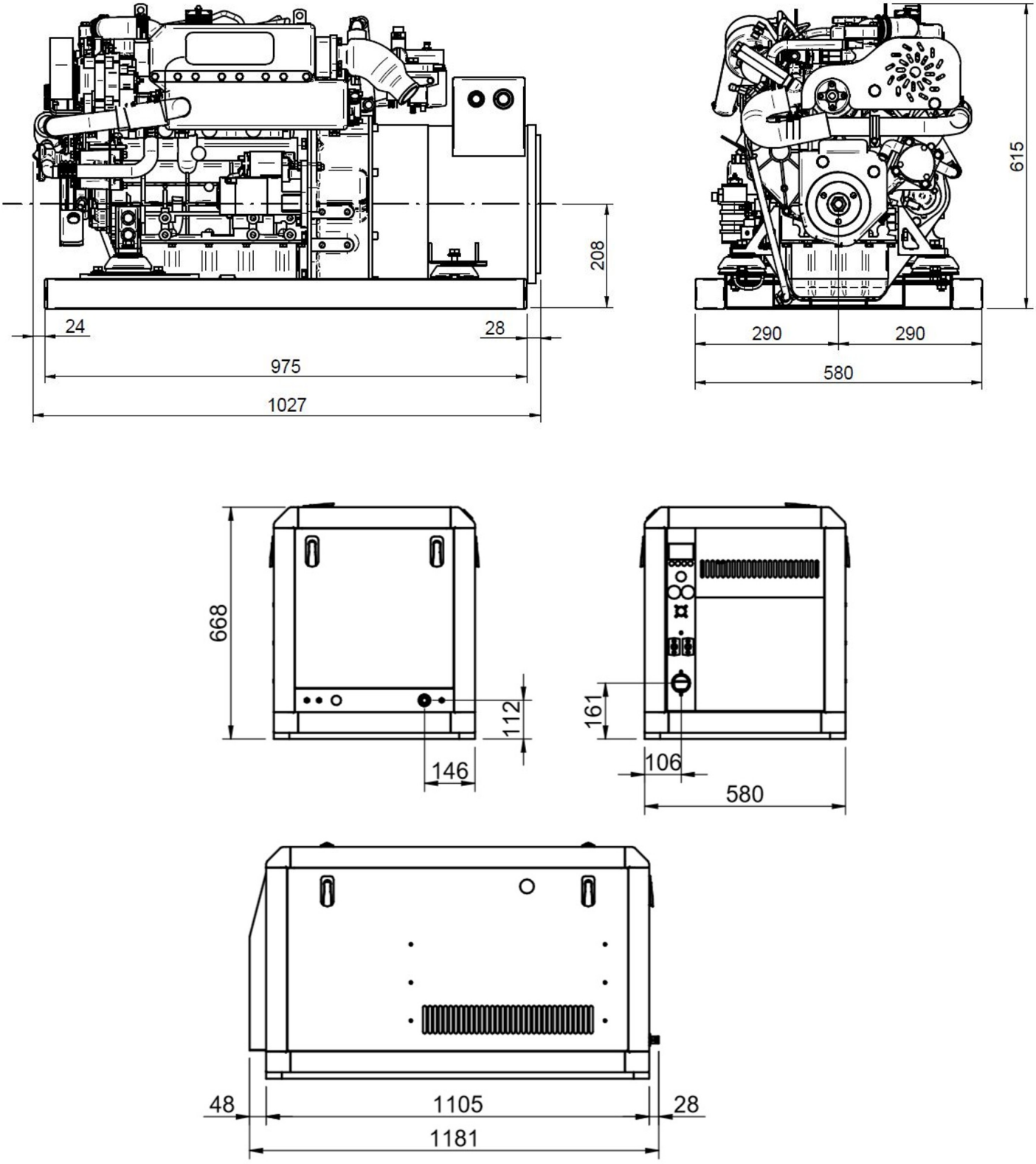
Inteligen200 Panel Features

- 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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CERTIFIED ISO 9001