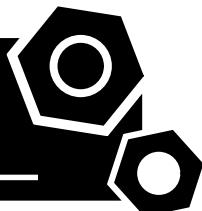


Generator set
Sound-proof type
GMS312CS-AU

SPECIFICATIONS



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1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

- 2x12V/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Non-returning valve for fuel inlet hose of the engine
- Steel base frame with forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 24 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 50°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 90%.
- Altitude: Below one thousand (1000) meters above sea level.

Factory Inspection

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

Painting Process

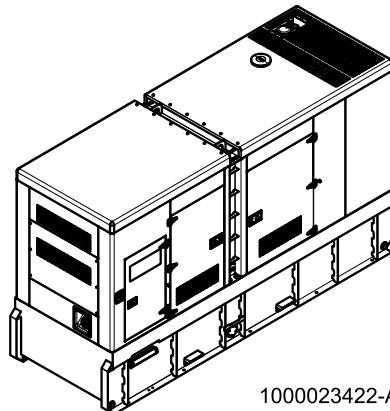
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Cummins engine NTA855-G1B
- Close coupled to a Stamford alternator S4L1D-E4
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 500A
- Rotate speed governor: Electrical governor FP801
- Excitation System: Self Excited, SHUNT
- A.V.R. Model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector

3 Equipment

General technical data

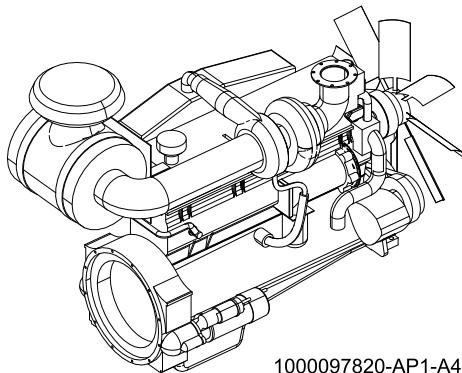


1000023422-AP1-B5

Model.....	GMS312CS-AU
Structure type	R
Tank capacity.....	1650L
Dry weigh.....	4779 kg
Noise level @7m	75.5dBA
Dimensions L×W×H.....	4242x1423x2426mm
Standby Power	344kVA/275kW
Prime Power	312kVA/250kW
Voltage/Ampere	415V/434A

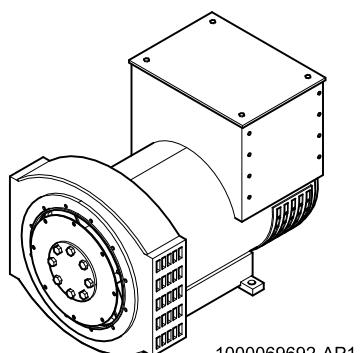
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	20.9	36.2	51.5	67.8	76.6

Power System



1000097820-AP1-A4

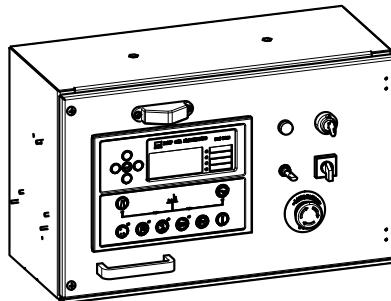
Engine Manufacturer/Brand.....	Cummins
Engine Model.....	NTA855-G1B
Dimensions L×W×H.....	1950.1*948.8*1588.4
Dry Weigh (approx.)	1410Kg
Number of Cylinders.....	6
Bore	140mm
Stroke	152mm
Displacement.....	14L
Compression Ratio.....	14
Type of injection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance.....	≤6.22kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2-ASTM D975
Type of Oil	API CD/SE or CCMCD4
Oil Capacity	38.6L
Type of Coolant	Glycol mixture
Coolant Capacity	60.6L
Back Pressure	≤10kPa
Standby Power	321kW
Prime Power	284kW
Fuel Consumption(100%load).....	208.8g/kW.h



1000069692-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	S4L1D-E4
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	0.8m³/s(50Hz),0.99 m³/s(60Hz)
Voltage Regulation	± 1.0 %
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System



1000177378-AP1-D3

PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

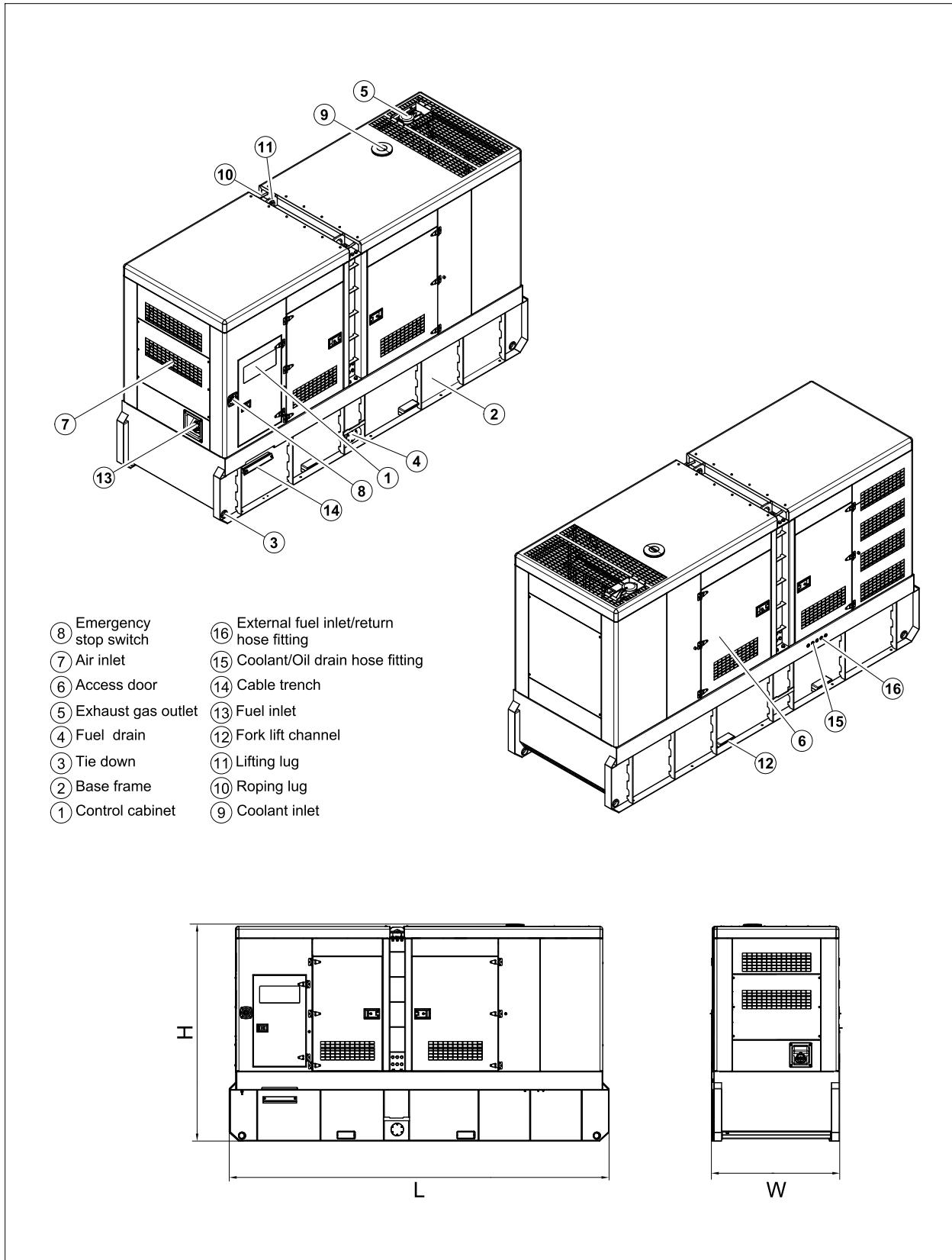
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4 Overall Dimensions



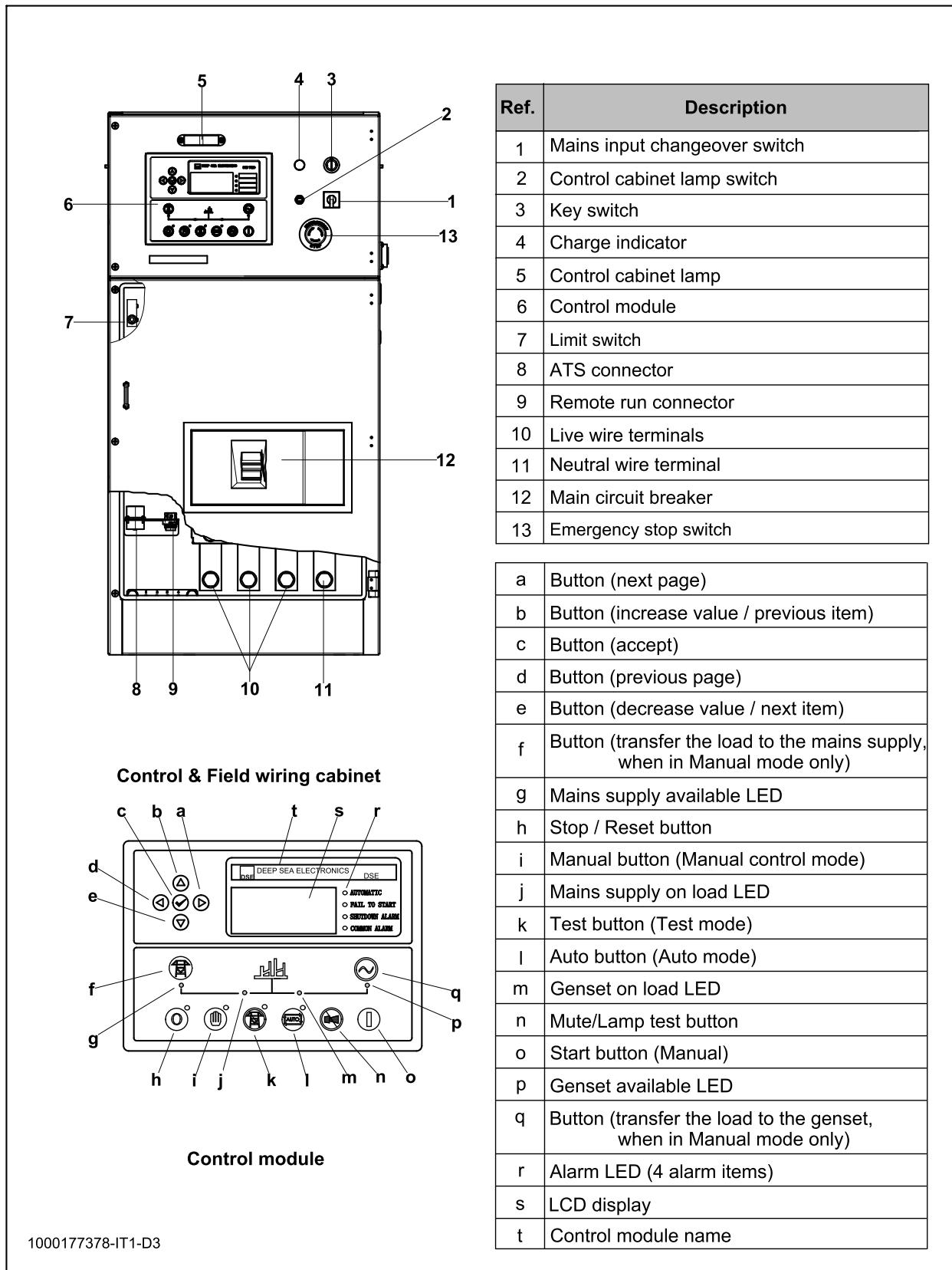
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5 Control System



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*Specification may change without prior notice. For more info.,
contact Power Link or your local distributors please.*

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