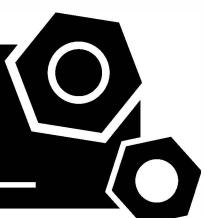


Generator set
Sound-proof type
GMS320CS-AU

SPECIFICATIONS



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

- Lockable battery isolator switch
- 50°C radiator
- Oil pump on the engine
- Steel base frame with lifting lug
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 21 hours running
- Drain points 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 80%.
- Altitude: Below one thousand (1000) meters.

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

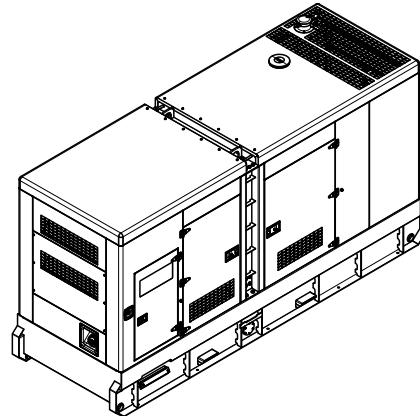
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Cummins engine 6LTAA9.5-G1
- Close coupled to LSA alternator LSA46.3L10
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 500A, 4P
- Rotate speed governor: Electrical governor
- Excitation System: AREP
- A.V.R. Model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/120AH sealed for life maintenance free battery

3 Equipment Specification

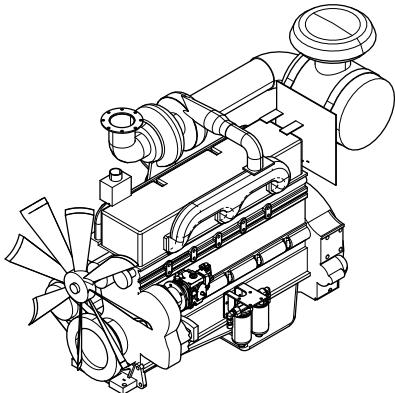
General technical data



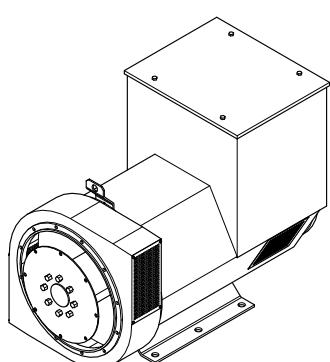
Model.....	GMS320CS-AU
Structure type	R
Tank capacity.....	1500L
Dry weight.....	4140kg
Sound pressure level @7m	75.7dBA
Dimensions L×W×H.....	4242×1463×2482mm
Standby Power	352kVA/282kW
Prime Power	320kVA/256kW

Voltage	380V	400V	415V	440V
Ampere	486.2A	461.9A	445.2A	419.0A
Genset Fuel Consumption				
Frequency/Load	25%	50%	75%	100%
50Hz (L/h)	18	35	52	70
				78

Power System

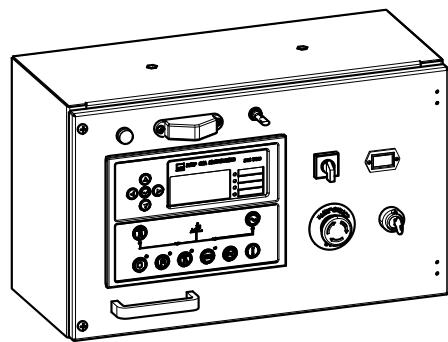


Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6LTAA9.5-G1
Dry Weigh (approx.)	791Kg
Number of Cylinders.....	6
Bore	116.5mm
Stroke	148mm
Displacement.....	9.5L
Type of injection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance.....	$\leq 6.22\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2-D per ASTM D975.
Type of Oil	API CD/SE or CCMCD4
Oil Capacity	32.4L
Type of Coolant	Glycol mixture
Coolant Capacity	11.1L
Back Pressure	$\leq 10\text{kPa}$
Standby Power	320kW
Prime Power	290kW



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA 46.3 L10
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	$\leq 1000\text{m}$
Overspeed	2250rpm
Air Flow.....	0.58m ³ /s(50Hz),0.69m ³ /s(60Hz)
Voltage Regulation	$\pm 1.0\%$
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

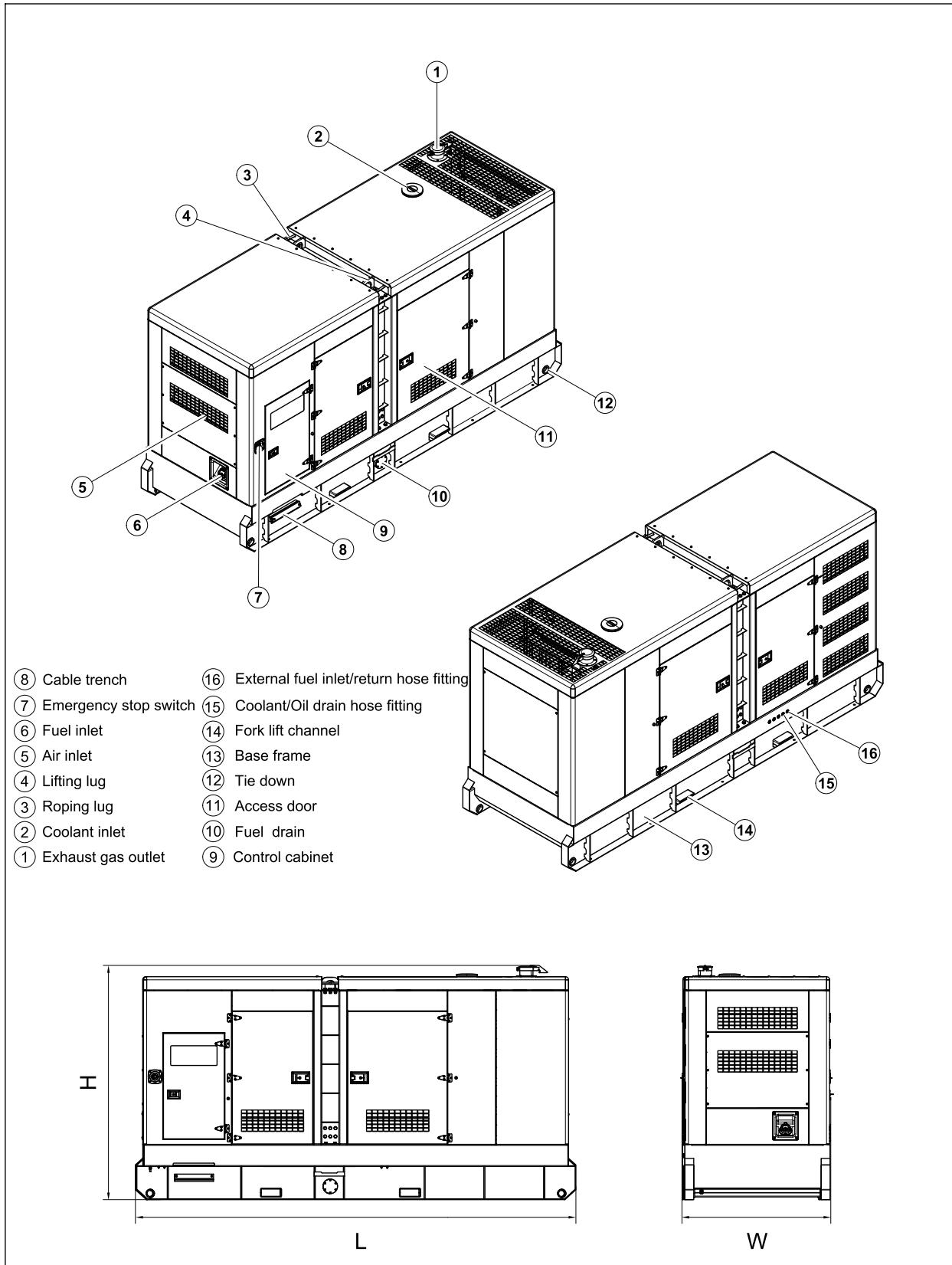
PLC-7420 Control System



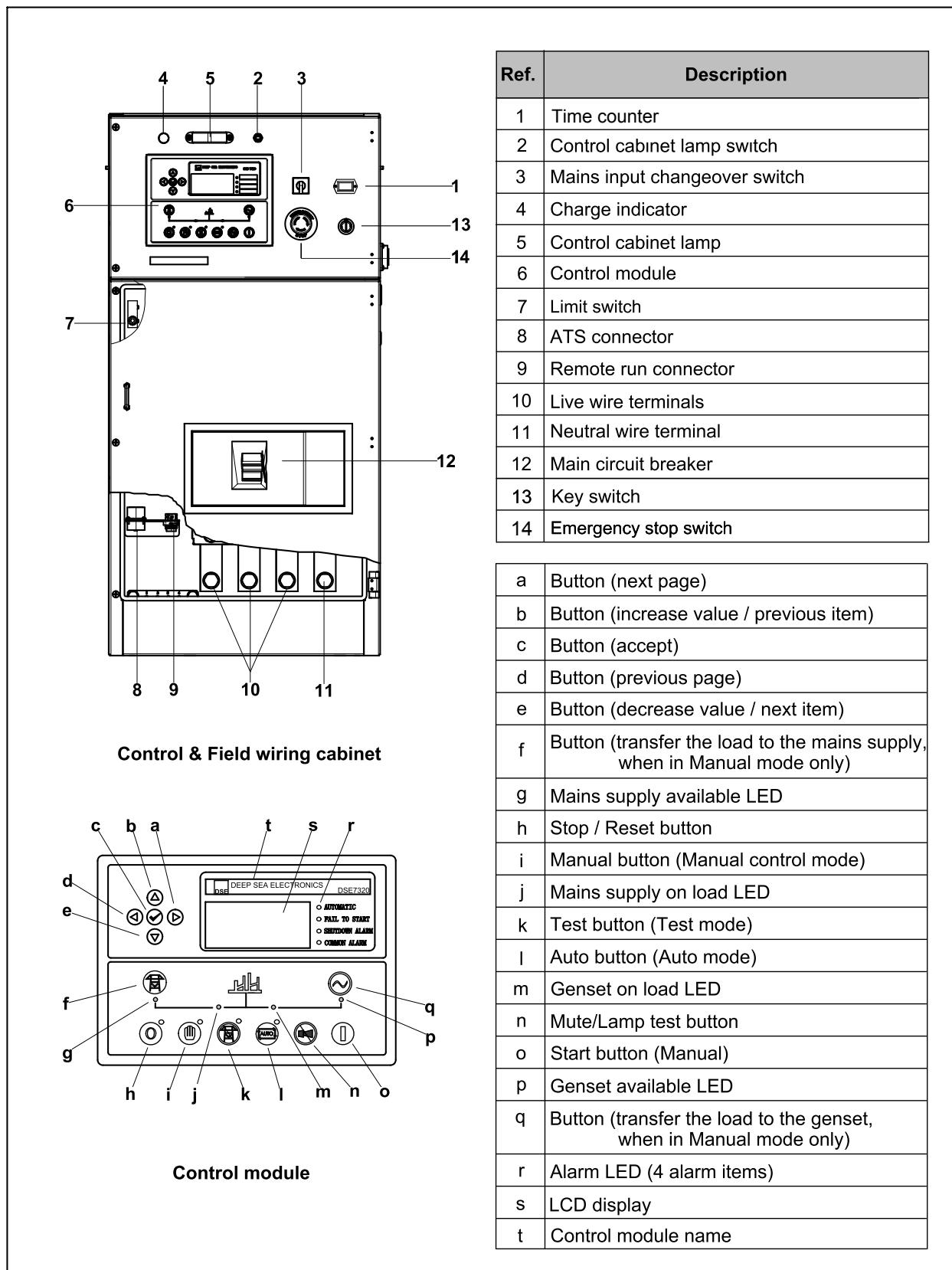
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

4 Overall Dimensions



4 Control System



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09.2020

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*Specification may change without prior notice. For more info.,
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