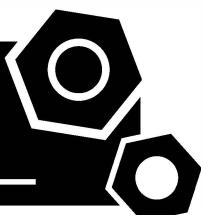


Generator set
Sound-proof type
GMS180CS

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009

- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on 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 11 hours running
- Drain points for fuel tank
- Operation Manual / Parts List / 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

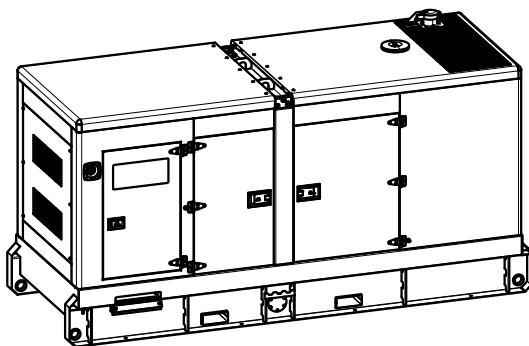
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Cummins engine 6CTA8.3-G2
- Close coupled to a Leroy Somer alternator LSA44.3VL13
- Microprocessor control module DSE7420
- Main circuit breaker: 320A
- Rotate speed governor: Electrical governor S6700E
- Excitation system: Self excited
- 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

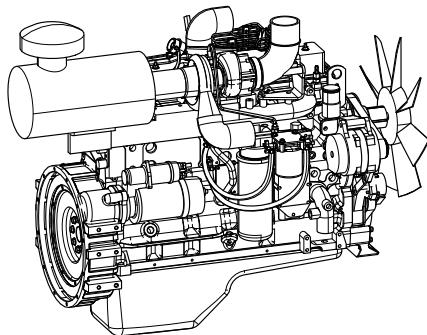
General technical data



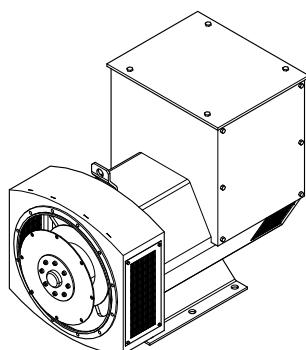
Model.....	GMS180CS
Structure type	R
Tank capacity.....	420L
Dry weight.....	2629g
Sound pressure level @7m	72.5dB(A)
Sound power level acc. 2000/14/EC	98dB(A)
Dimensions L×W×H.....	3438×1300×1868mm
Standby Power	198kVA/158kW
Prime Power	180kVA/144kW

Voltage	380V	400V	415V	440V	
Ampere	273.5A	259.8A	250.4A	236.2A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	8	16	24	33	37

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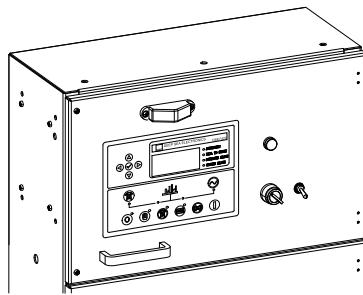


Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6CTA8.3G2
Dimensions L×W×H.....	1110×1110×1110mm
Dry Weight (approx.)	1100kg
Number of Cylinders.....	6
Bore	114mm
Stroke	135mm
Displacement.....	8.3L
Compression Ratio.....	18.5:1
Type of injection.....	Direct injection
Intake System.....	Turbocharged, water-to-air charge cooled
Intake Resistance	≤6.28kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12/24V
Type of Fuel.....	Diesel
Type of Oil	ACEA E2, API CF, CF-4, CG-4
Oil Capacity	23.8L
Type of Coolant	Glycol mixture
Coolant Capacity	FG3L
Back Pressure	≤10.1kPa
Standby Power	180kW
Prime Power	163kW
Fuel Consumption(100%load).....	45L/h



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA44.3VL13
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.....	0.25m³/s(50Hz),0.30m³/s(60Hz)
Voltage Regulation	±0.5%
Total Harmonic TGH / THCat no load < 2 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

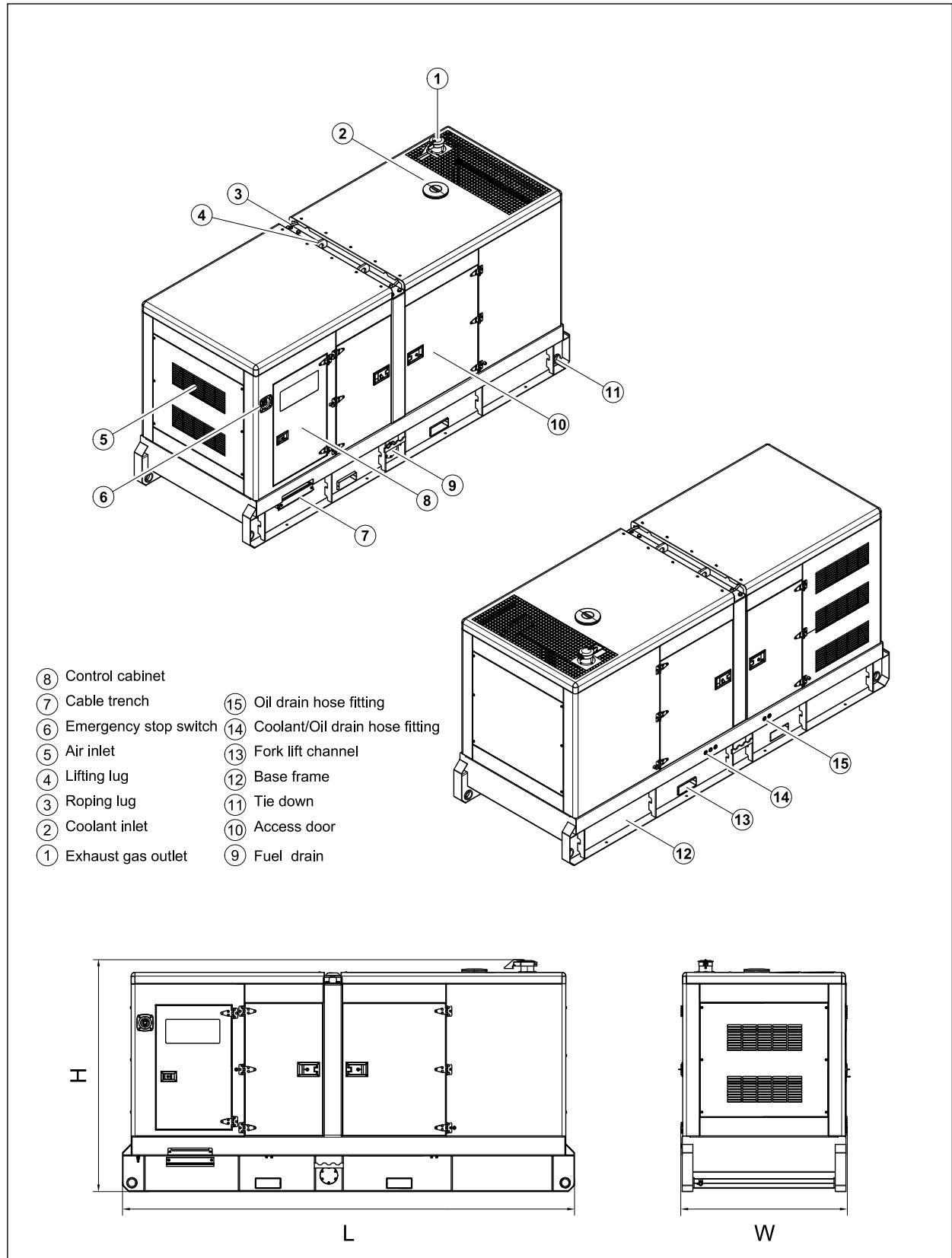
DSE-7420 Control System



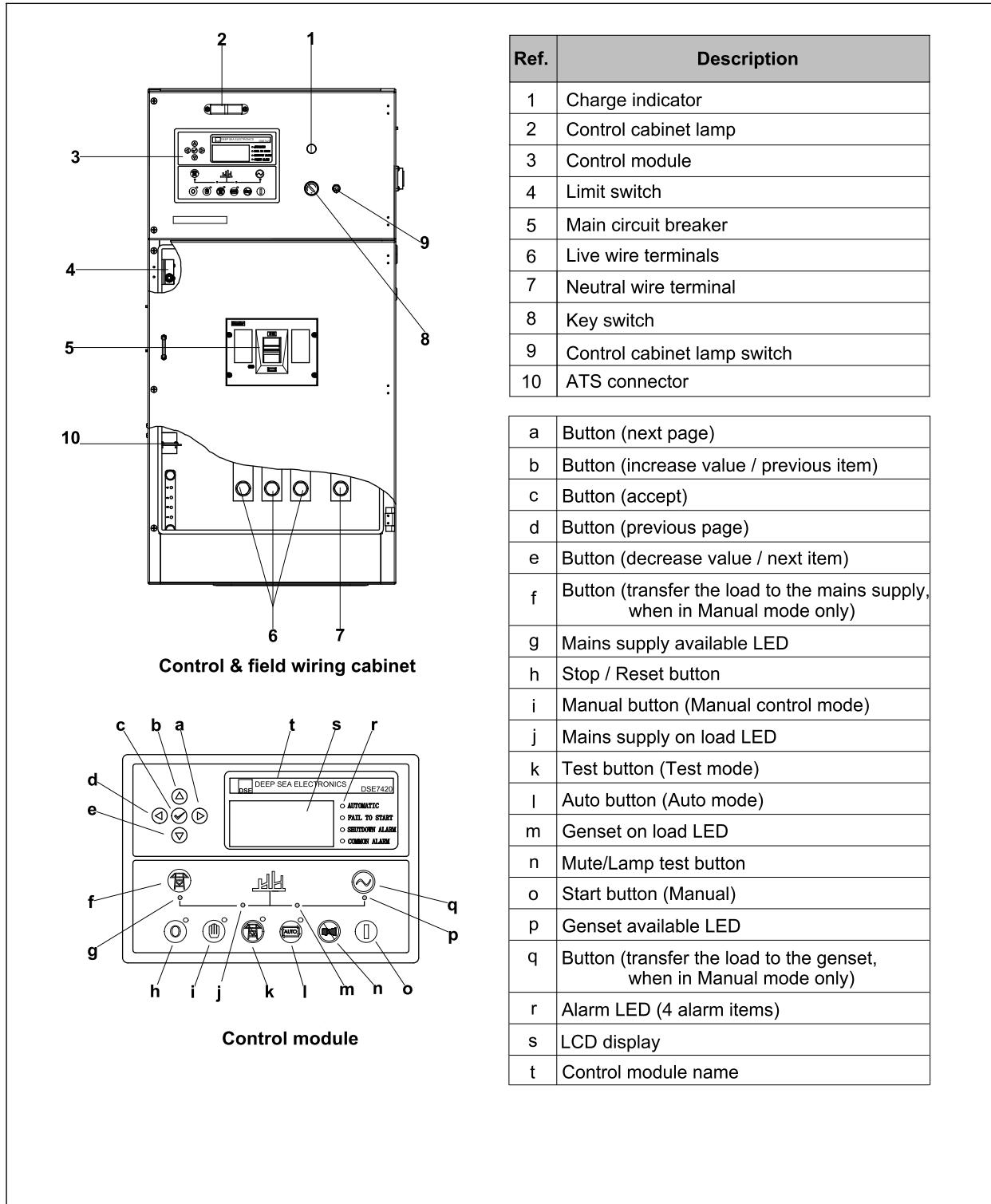
DSE-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

4 Overall Dimensions



5 Control System



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04.2023

<http://www.powerlinkworld.com>

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

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