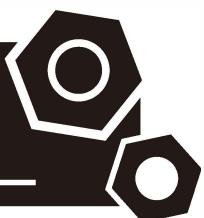


Generator set
Sound-proof type
GMS175CS-AU

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
- AS 3000-1997
- AS 3010.1-1988

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.

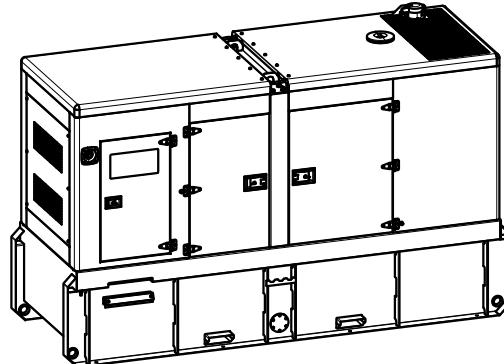
2 General Features

- Cummins engine 6CTA8.3G2
- Close coupled to a LSA alternator LSA44.3VL13
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 250A
- Rotate speed governor: Electrical governor S6700E
- Excitation System: Self ExcitedSHUNT
- A.V.R.Model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- Remote run connector
- 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 30 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data

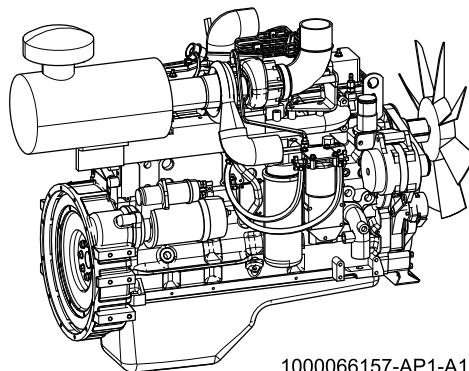


1000023419-AP1-C2

Model.....	GMS175CS-AU
Structure type	R
Tank capacity.....	1200L
Dry weight.....	2841kg
Noise level @7m	72.3dBA
Dimensions L×W×H.....	3500×1222×2149mm
Standby Power	193kVA/154kW
Prime Power	175kVA/140kW
Voltage/Ampere	415V/243A

Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	11	20	30	40	45

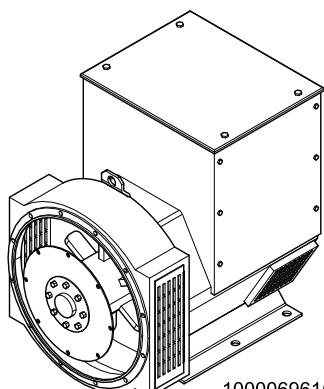
Diesel Engine



1000066157-AP1-A10

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6CTA8.3G2
Dimensions L×W×H.....	1128x740x1084mm
Dry Weigh (approx.)	629kg
Number of Cylinders.....	6
Bore	114mm
Stroke	135mm
Displacement.....	8.3L
Compression Ratio.....	16.5
Type of injection.....	Direct injection
Intake System.....	Turbocharged,water-to-air charge cooled
Intake Resistance.....	$\leq 6.28\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12/24V
Type of Fuel.....	0# or -10# light diesel
Type of Oil	15W40-CF4
Oil Capacity	24L
Type of Coolant	Glycol mixture
Coolant Capacity	38L
Back Pressure	$\leq 10.1\text{kPa}$
Standby Power	180kW
Prime Power	163kW
Fuel Consumption(100%load).....	210g/kW.h

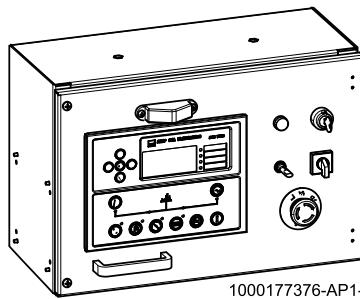
Alternator



1000069615-AP1-A1

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.....	$\leq 1000\text{m}$
Overspeed	2250rpm
Air Flow.....	0.514m ³ /s(50Hz),0.617m 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

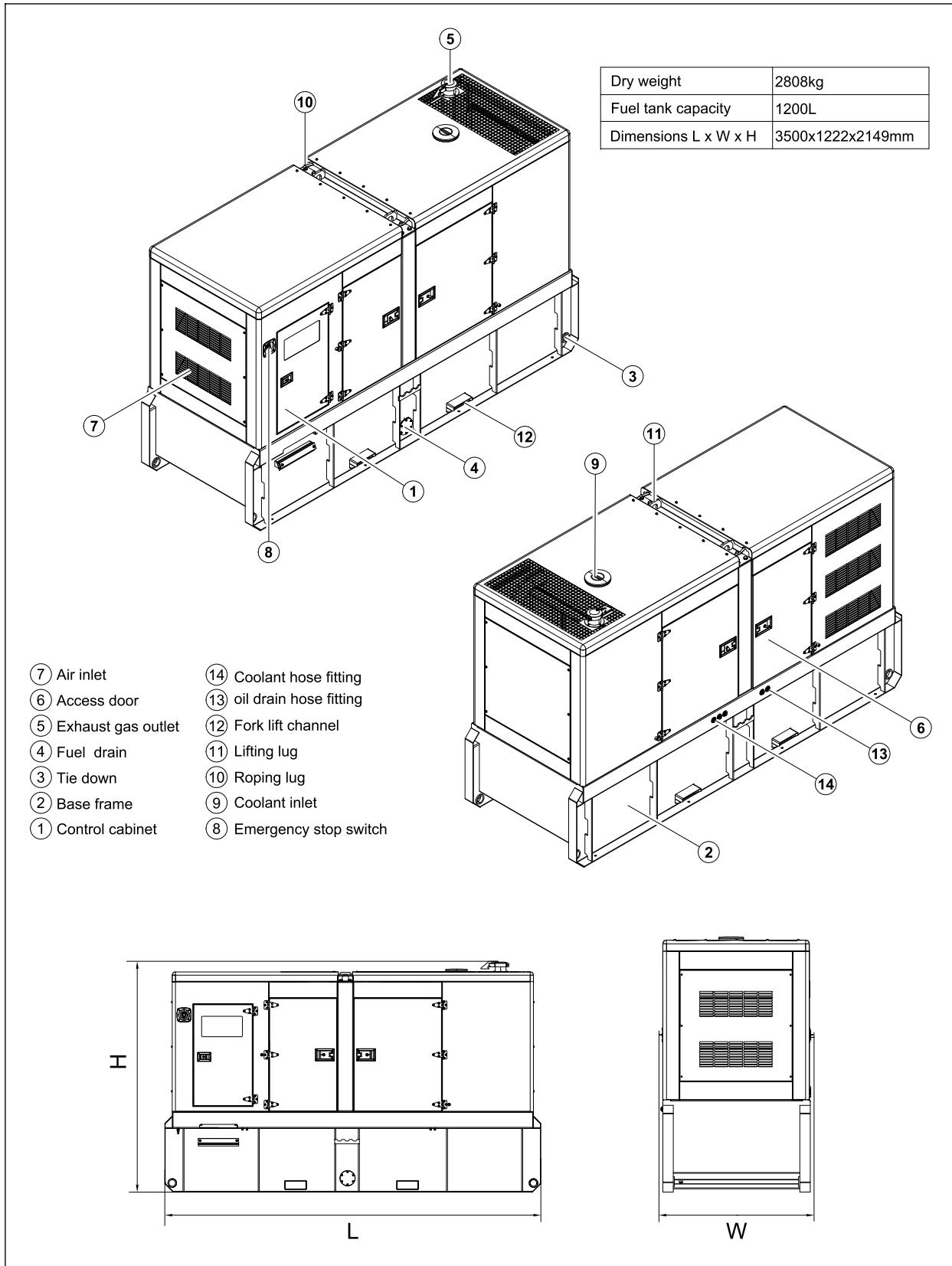


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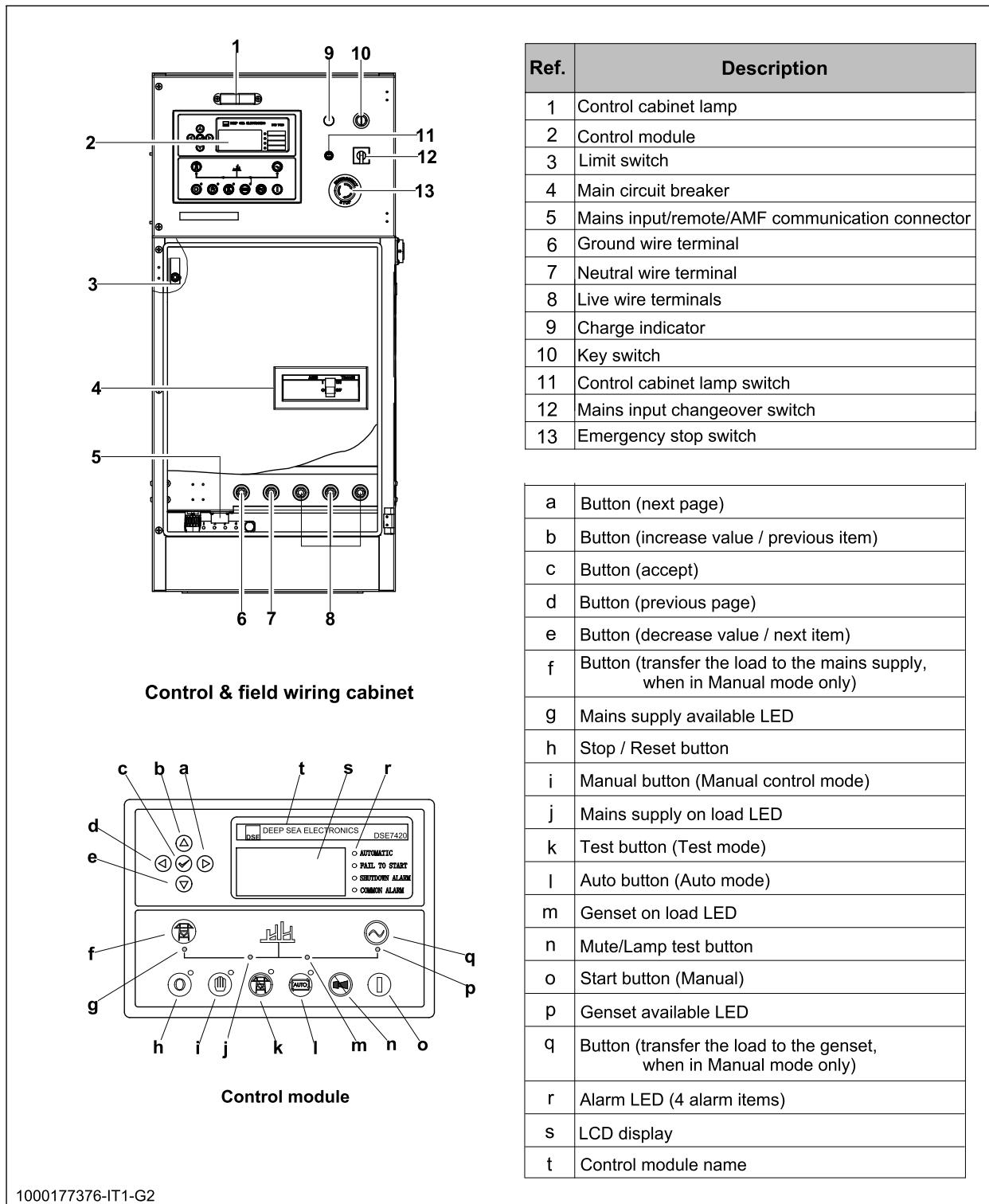
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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



5 Control System



1000030742-F2-E
10.2020

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