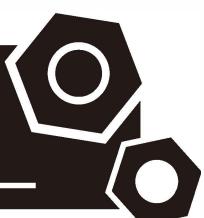


**Generator set**  
**Sound-proof type**  
**GMS60CS-AU**

## **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 45°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.

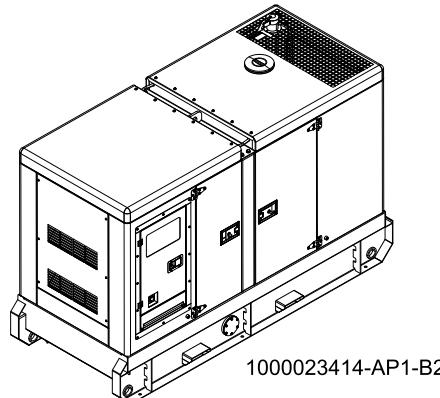
## 2 General Features

- Cummins engine 4BTA3.9-G2
- Close coupled to a Leroy Somer alternator LSA42.3L9
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 100A
- Rotate speed governor: Mechanical governor
- Excitation System: Self Excited SHUNT
- A.V.R.Model: R220
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- Remote run connector
- 2x12V/70AH 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 27 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

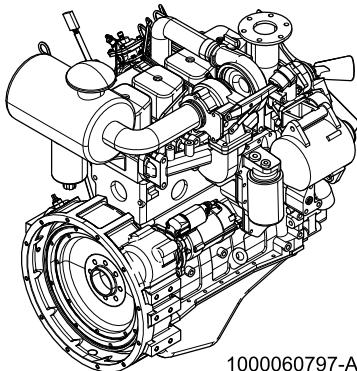
### General technical data



Model.....	GMS60CS-AU
Structure type .....	R
Tank capacity.....	360L
Dry weight.....	1524kg
Noise level @7m .....	68.1dBA
Dimensions L×W×H.....	2688x1080.5x1759mm
Standby Power .....	61kVA/48.8kW
Prime Power .....	60kVA/48kW
Voltage/Ampere .....	415V/83A

Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	3.8	6.7	9.8	13.1	14.7

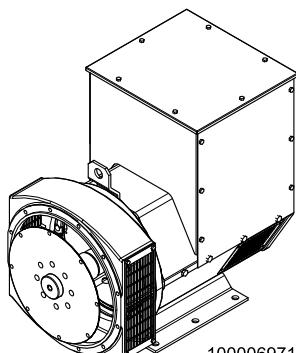
## Diesel Engine



1000060797-AP1-B4

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	4BTA3.9G2
Dimensions L×W×H.....	884.9*748.4*985.6
Dry Weigh (approx.) .....	350kg
Number of Cylinders.....	4
Bore .....	102mm
Stroke .....	120mm
Displacement.....	3.9L
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.....	Diesel
Type of Oil .....	15W40-CF4
Oil Capacity .....	9.5L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	20.8L
Back Pressure .....	$\leq 10.1\text{kPa}$
Standby Power .....	55kW
Prime Power .....	50kW
Fuel Consumption(100%load).....	216g/kW.h

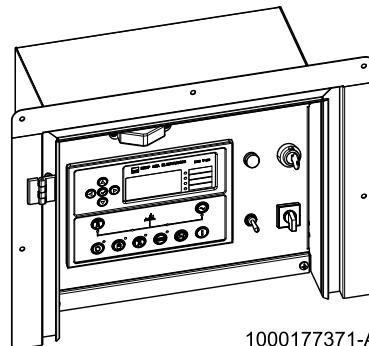
## Alternator



1000069716-AP1-A4

Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA42.3L9
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 .....	2250 rpm
Air Flow.....	0.10m <sup>3</sup> /s(50HZ),0.13m <sup>3</sup> /s(60HZ)
Voltage Regulation .....	$\pm 0.5\%$
Total harmonic TGH / THCat no load < 1.5 % - on load < 2%	
Telephone Interference.....	THF<2%;TIF<50

## PLC-7420 Control System

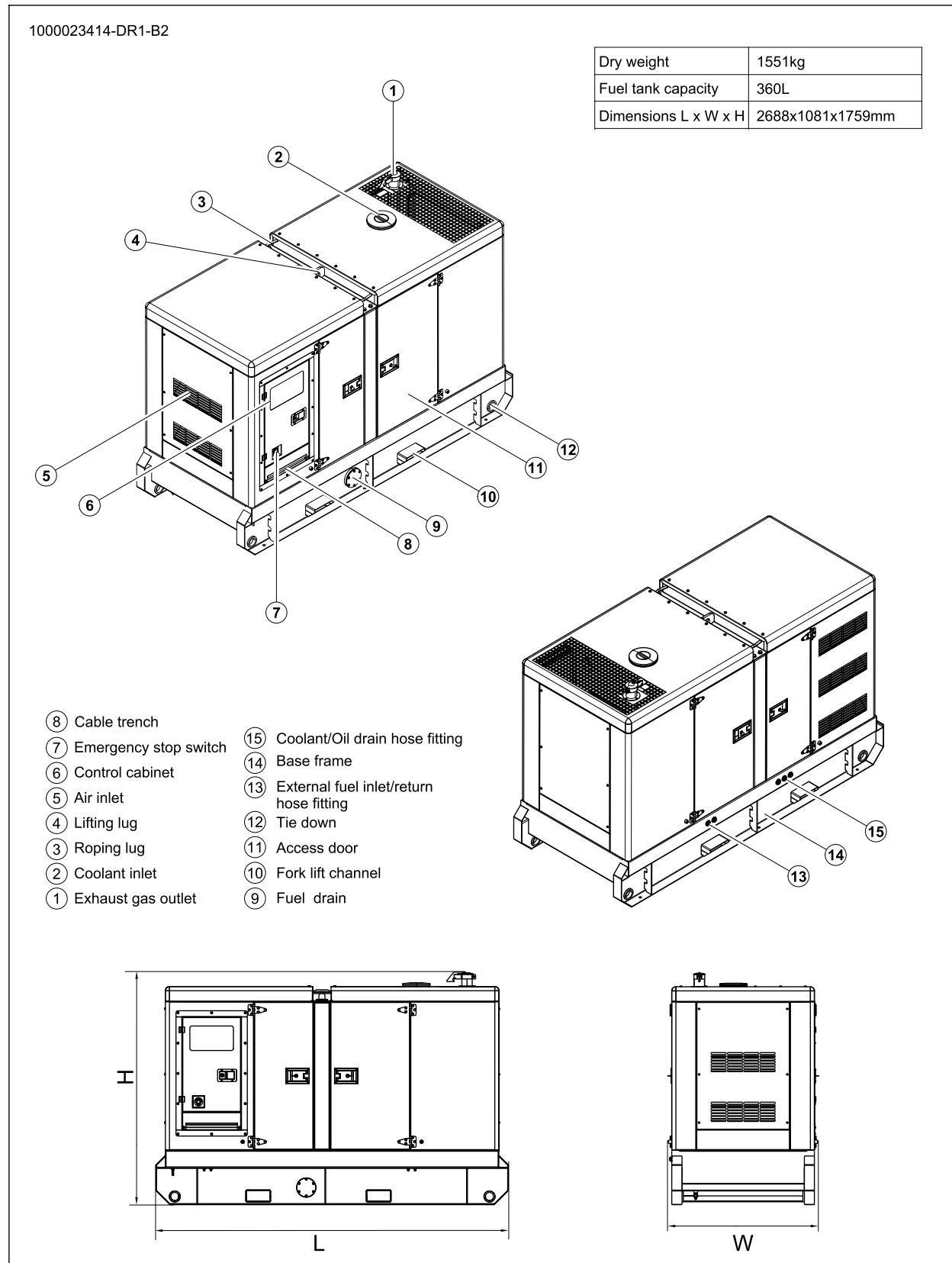


1000177371-AP1-C2

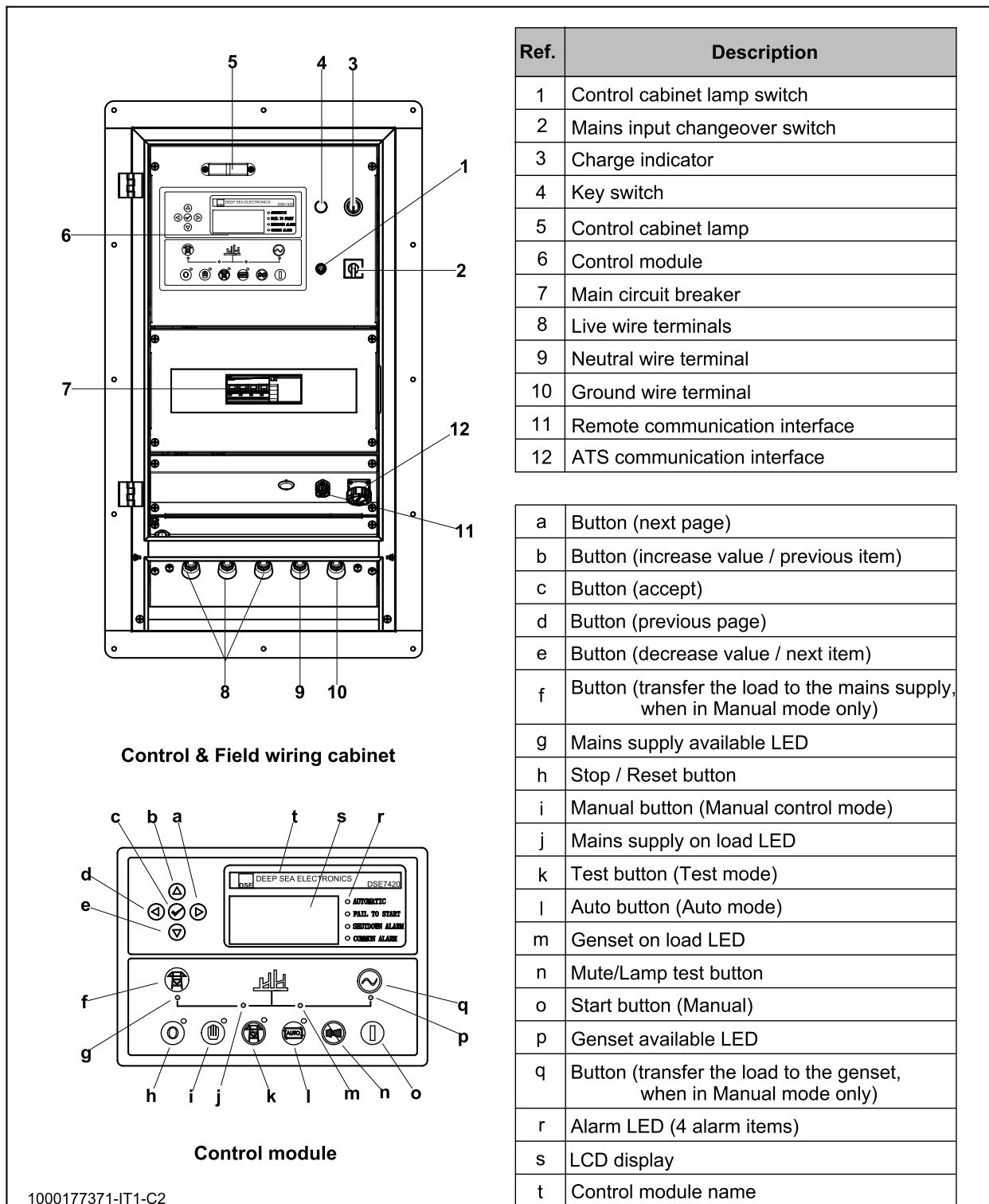
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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



1000023414-F3-E
10.2020

<http://www.powerlinkworld.com>

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

---

©2020 POWERLINK