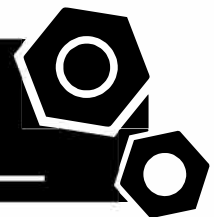


**Generator set**

**Sound-proof type**

**GMS30CS**

**SPECIFICATIONS**



**SC series**  
**GMS30CS**  
 50 Hz @ 1500rpm,3-phase/5-wiring

**1 Standards & Conditions**

**Design Standards**

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

**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.

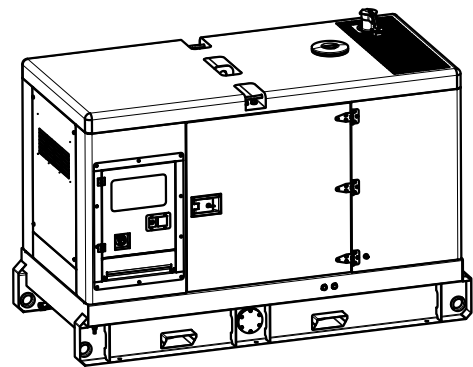
**2 General Features**

- Cummins engine 4B3.9-G1
- Close coupled to LSA alternator LSA42.3VS3
- Microprocessor control module PLC-920
- Main circuit breaker: 63A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited
- A.V.R model: R220
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/72AH sealed for life maintenance free battery

- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 26 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

**3 Equipment Specification**

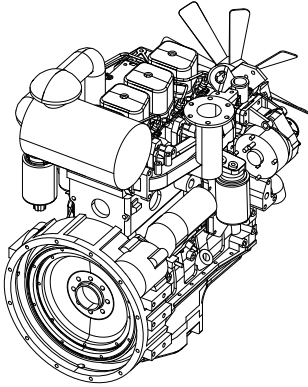
**General technical data**



Model.....GMS30CS  
 Structure type ..... R  
 Tank capacity.....180L  
 Dry weigh..... 1226kg  
 Noise level @7m ..... 67.7dBA  
 Dimensions L×W×H.....2338×1115×1560mm  
 Standby Power ..... 33kVA/26kW  
 Prime Power ..... 30kVA/24kW

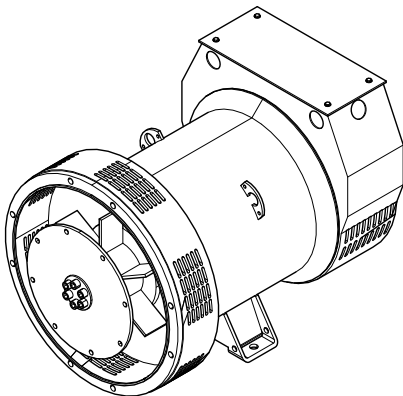
Voltage	380V	400V	415V	440V	
Ampere	46A	43A	42A	39A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	2.7	4.0	5.2	6.7	7.5

## Power System



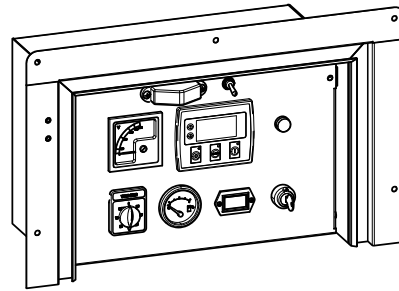
Engine Manufacturer/Brand .....	Cummins
Engine Model .....	4B3.9G1
Dimensions L×W×H.....	765×582×908mm
Dry Weigh (approx.) .....	308kg
Number of Cylinders .....	4
Bore .....	102mm
Stroke .....	120mm
Displacement .....	3.9L
Compression Ratio .....	16.5
Type of injection.....	Direct injection
Intake System .....	Natural aspirated
Intake Resistance .....	≤ 4.98kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	12/24V
Type of Fuel .....	0# or ASTM2
Type of Oil .....	API-CG4/CH4 or ACEA-E3/E5
Oil Capacity .....	9.5L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	19.6L
Back Pressure .....	≤ 10.1kPa
Standby Power .....	27kW
Prime Power .....	24kW
Fuel Consumption(100%load) .....	229g/kW.h

## Alternator



Alternator Manufacturer/Brand .....	LSA
Alternator Model .....	LSA42.3VS3
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.....	0.100 m³/sec(50Hz),0.122 m³/sec(60Hz)
Voltage Regulation .....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

## PLC-920 Control System

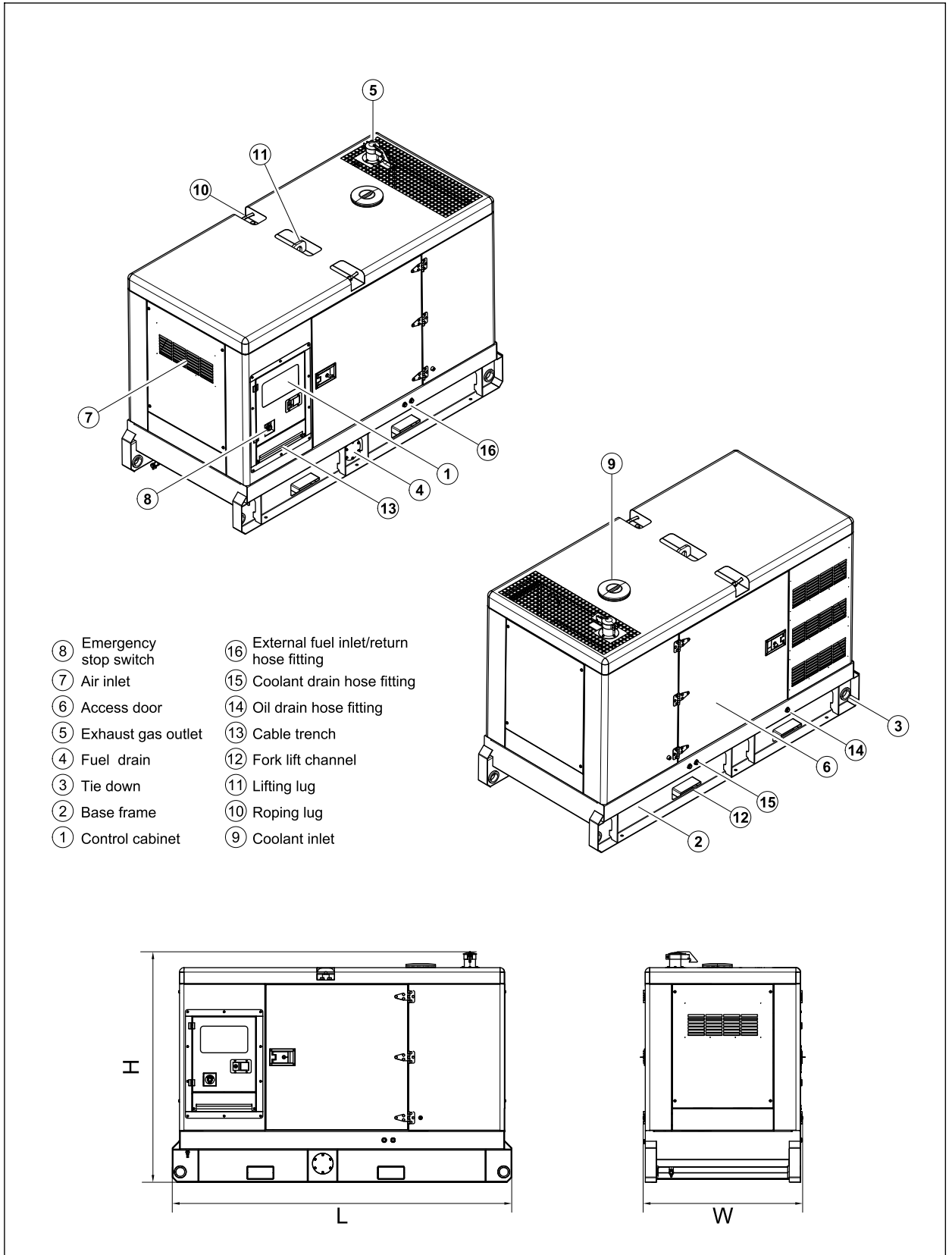


PLC-920 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

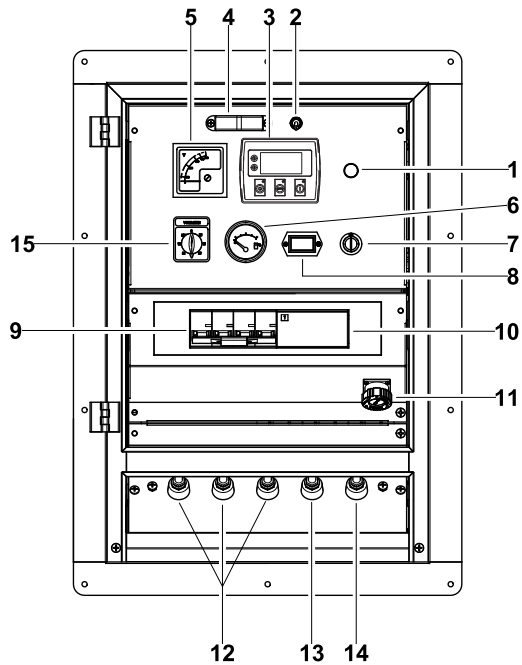
### Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

## 4 Overall Dimensions

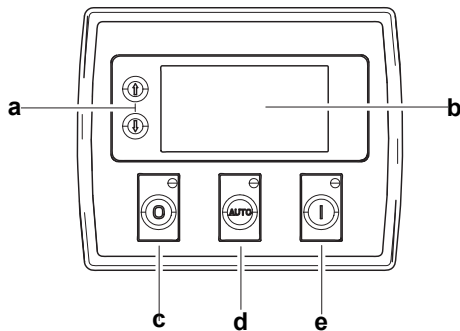


## 7 Control System



**Control & field wiring cabinet**

Ref.	Description
1	Charge indicator
2	Control cabinet lamp switch
3	Control module
4	Control cabinet lamp
5	Voltage meter
6	Fuel level meter
7	Key switch
8	Time counter
9	Main circuit breaker
10	RCD.
11	Mains input /ATS /Remote communication connector
12	Live wire terminal
13	Neutral wire terminal
14	Ground wire terminal
15	Voltmeter change-over switch



**Control module**

Ref.	Description
a	Navigation button«» Accept (Configuration mode only)
b	Main status display
c	Stop/reset button«» Next page (Configuration mode only)
d	Auto start button«» Decrease value/next item (Configuration mode only)
e	Start button«» Increase value/next item (Configuration mode only)