

Generator set

Open type

GMS135C

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

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

Environmental Operating Conditions

- Installation place: 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 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.

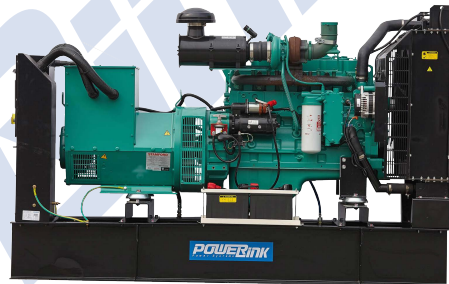
2 General Features

- Cummins engine 6BTAA5.9-G2
- Close coupled to a Stamford alternator UCI274E
- Microprocessor control module PLC-920
- Main circuit breaker: 160A
- Rotate speed governor: Mechanical governor
- Excitation System: Self Excited, SHUNT
- A.V.R. Model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/70AH sealed for life maintenance free battery

- Lockable battery isolator switch
- 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 8 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

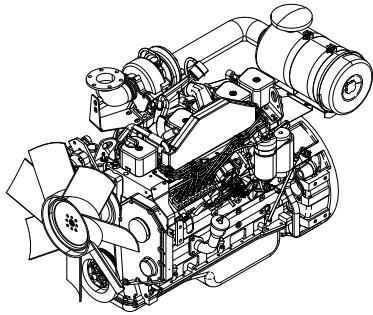
General technical data



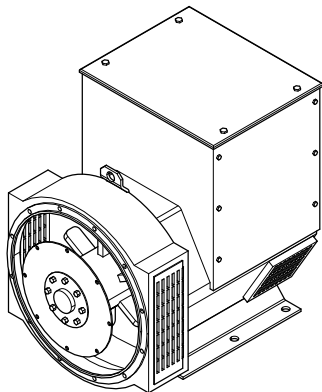
Model.....	GMS135C
Structure type	A
Tank capacity.....	250L
Dry weight.....	1350kg
Sound pressure level @1m/ 7m	N/A
Sound power level acc. 2000/14/EC	N/A
Dimensions L×W×H.....	2635*875*1460mm
Standby Power	149kVA/119kW
Prime Power	135kVA/108kW

Voltage	380V	400V	415V	440V	
Ampere	205.1A	194.9A	187.8A	177.1A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	9	16	23	30	34

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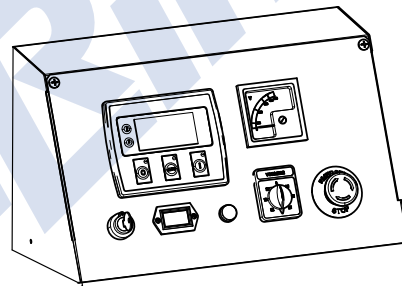


Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6BTAA5.9-G2
Dimensions L×W×H.....	N/A
Dry Weigh (approx.).....	411kg
Number of Cylinders.....	6
Bore.....	102mm
Stroke.....	120mm
Displacement.....	5.9L
Compression Ratio.....	17.3
Type of injection.....	Direct injection
Intake System.....	Turbo charged
Intake Resistance.....	≤6.28kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	12/24V
Type of Fuel.....	Diesel
Type of Oil.....	15W40-CF4
Oil Capacity.....	14.2L
Type of Coolant.....	Glycol mixture
Coolant Capacity (engine only).....	10L
Heat Rejected To Exhaust System.....	N/A
Heat Rejected To Water&Oil.....	49kW(2744BTU/min)
Back Pressure.....	≤10.1kPa
Standby Power.....	130kW
Prime Power.....	120kW
Fuel Consumption(100%load).....	30L/hr



Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	UCI274E
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.....	2250 rpm
Air Flow.....	0.514m³/s(50HZ),0.617m³/s(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

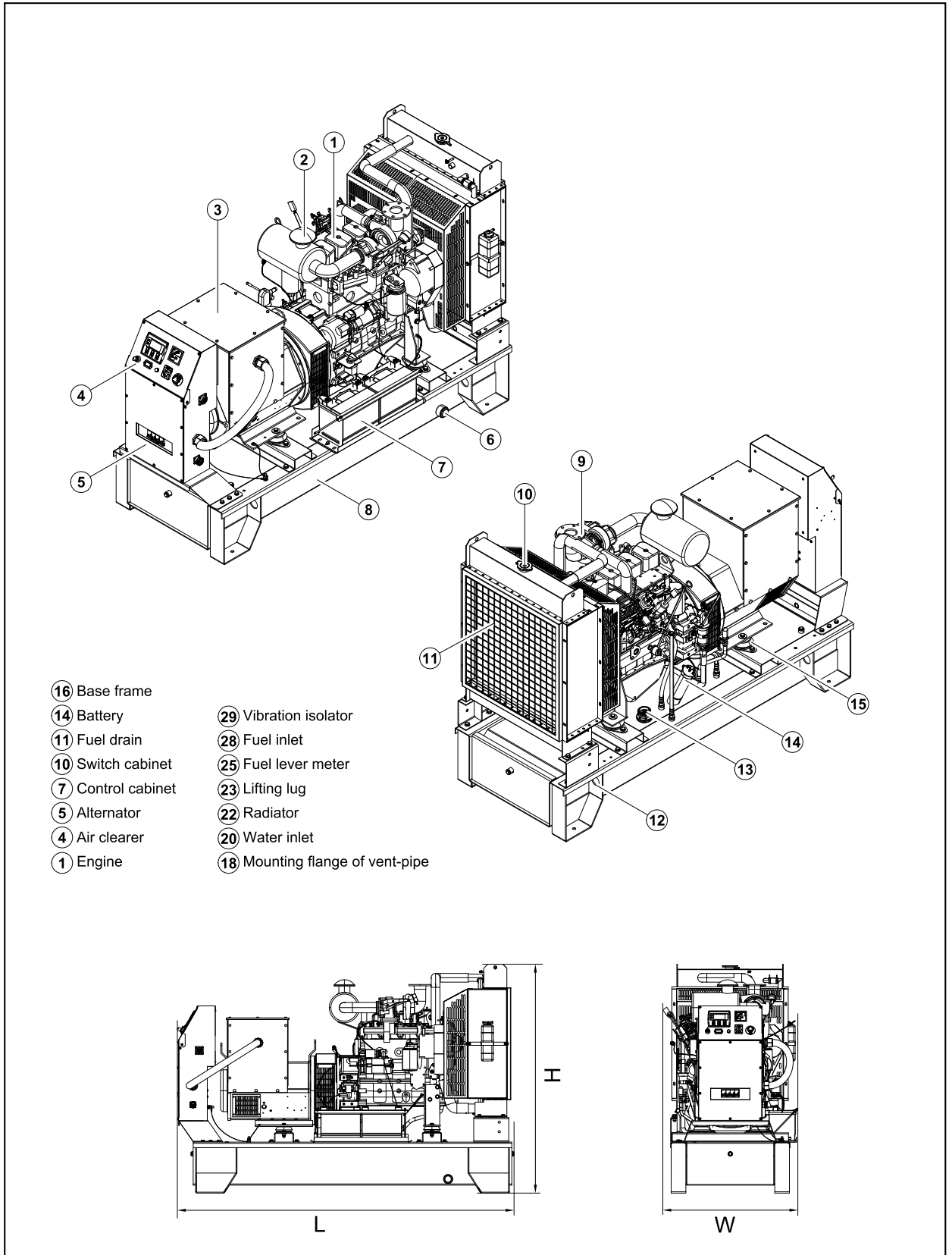


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

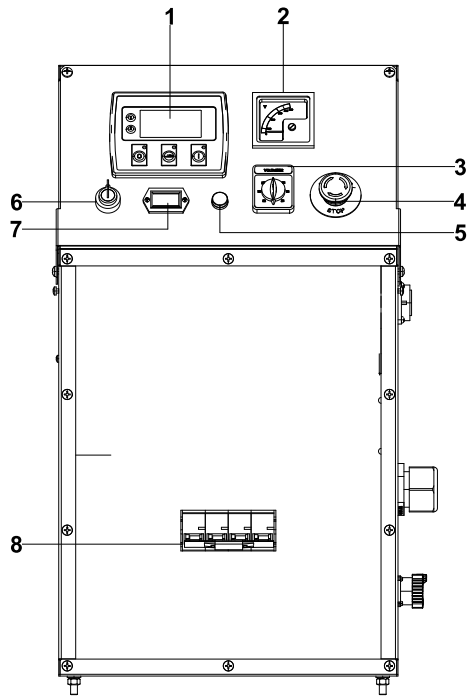
Standard Control Function

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

4 Overall Dimensions

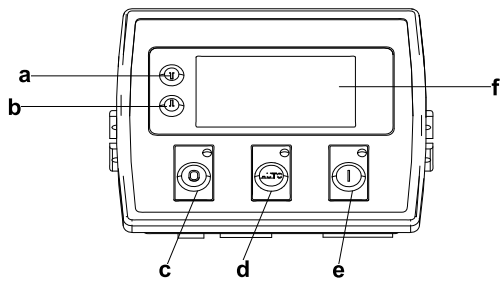


5 Control System



Control & field wiring cabinet

Ref.	Description
1	PLC-920 control module
2	Voltage meter
3	Voltmeter change-over switch
4	Emergency stop button
5	Charge indicator
6	Key switch
7	Time counter
8	Main circuit breaker



Control module

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

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Power Systems

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