

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.

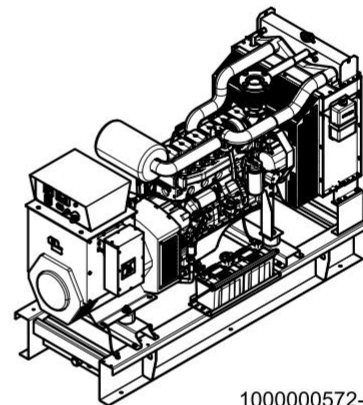
2 General Features

- Cummins engine 6BTAA5.9-G2
- Coupled to a Leroy-Somer or Stamford alternator
- Microprocessor control module PLC-920
- MCCB genset circuit breaker: 225A
- Rotate speed governor: Electrical governor S6700E
- Excitation system: Self excited
- 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 lifting lugs
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 9 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data



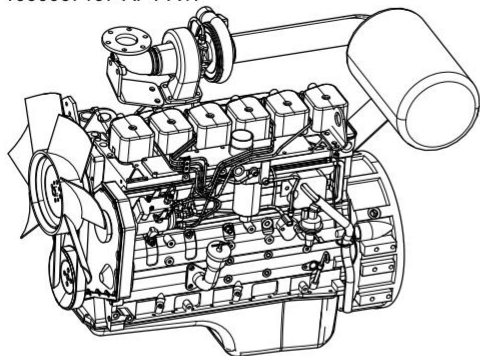
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Model.....G130DG
Structure TypeOpen Type
Tank capacity.....260L
Dry weight.....1310kg
Sound pressure level @7mN/A
Sound power acc. 2000/14/ECN/A
Dimensions L×W×H.....2316x889x1540mm
Standby Power145kVA/116kW
Prime Power.....130kVA/104kW

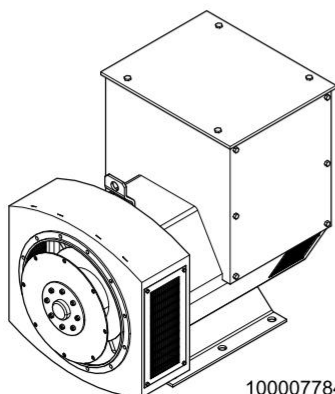
Voltage	380V	400V	415V	440V	
Ampere	197.5A	187.6A	180.8A	170.5A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	8.5	15.2	21.8	28.5	32.3

Power System

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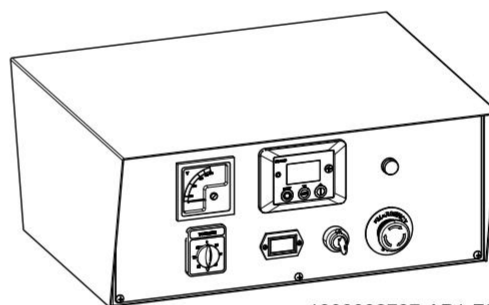
Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6BTAA5.9G2
Dimensions L×W×H.....	1184.7*655.7*981.3
Dry Weigh (approx.)	411kg
Number of Cylinders.....	6
Bore.....	102mm
Stroke	120mm
Displacement.....	5.9L
Compression Ratio	16.8
Type of injection.....	Direct injection
Intake System.....	Turbocharged, air-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	15W40-CF4
Oil Capacity	14.2L
Type of Coolant	Glycol mixture
Coolant Capacity	34L
Back Pressure	≤10.1kPa
Standby Power	130kW
Prime Power	120kW
Fuel Consumption(100%load).....	208g/kW.h



1000077845-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	UC1274E
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

DSE Control System



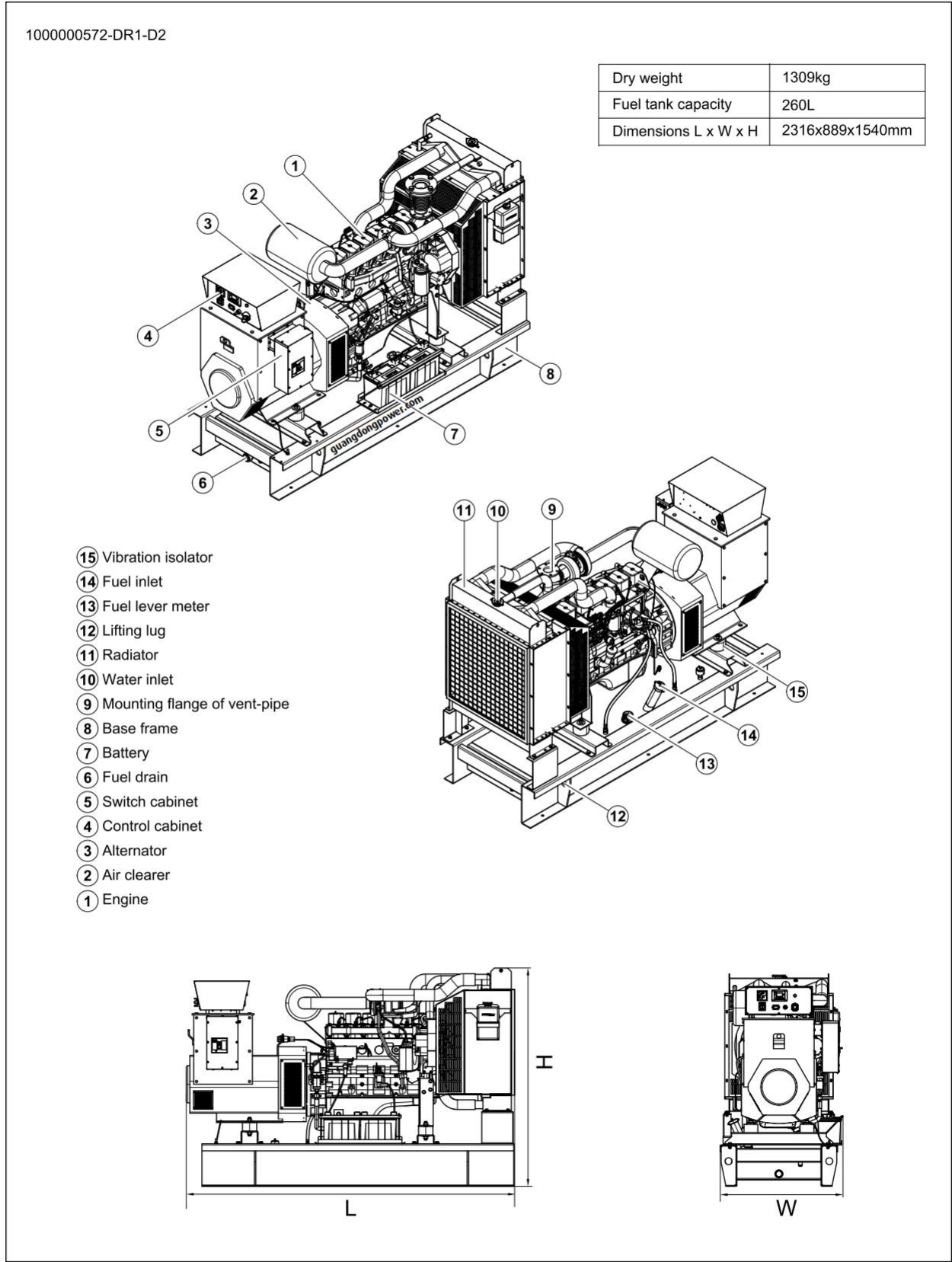
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DSE-920 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting 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

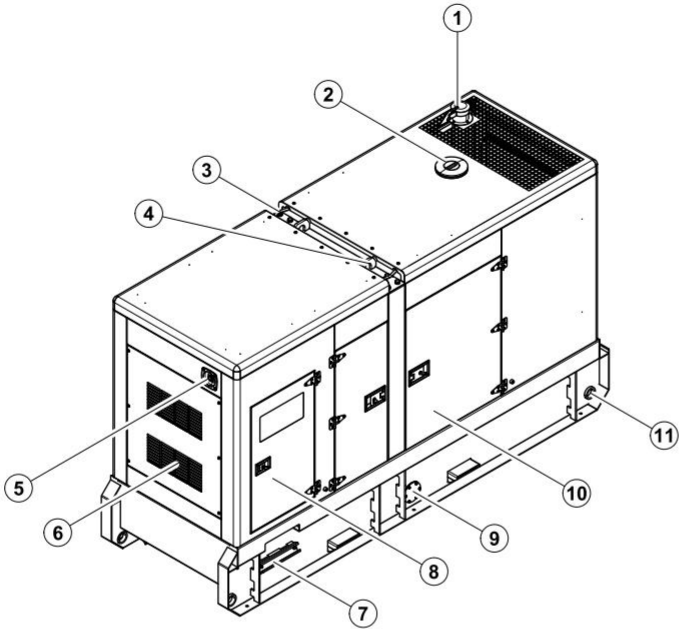
4. Open Type Overall Dimensions



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5. Silent Type Overall Dimensions

1000008817-DR1-G3



Dry weight	2223kg
Fuel tank capacity	580L
Dimensions L x W x H	3312x1122x1974mm

- ⑨ Fuel drain
- ⑧ Control cabinet
- ⑦ Cable trench
- ⑥ Air inlet
- ⑤ Emergency stop switch
- ④ Lifting lug
- ③ Roping lug
- ② Coolant inlet
- ① Exhaust gas outlet
- ⑬ Fork lift channel
- ⑫ Base frame
- ⑪ Tie down
- ⑩ Access door
- ⑮ External fuel inlet/return hose fitting
- ⑭ Oil drain hose fitting
- ⑯ Coolant drain hose fitting

