

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.

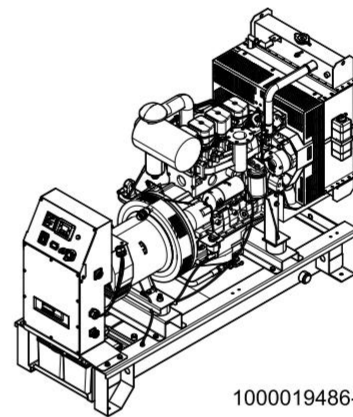
2 General Features

- Cummins engine 4B3.9-G1
- Coupled to a Leroy-Somer or Stamford alternator
- Microprocessor control module PLC-920
- MCCB circuit breaker: 50A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: AS480
- 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 with 18 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

General technical data

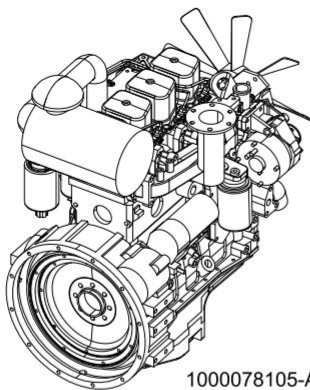


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Model.....G30DG
Structure type D
Tank capacity.....120L
Dry weight.....729kg
Sound pressure level @1m/ 7m N/A
Sound power level acc. 2000/14/EC N/A
Dimensions L×W×H..... 1907x733x1399mm
Standby Power 32kVA/26kW
Prime Power 30kVA/24kW

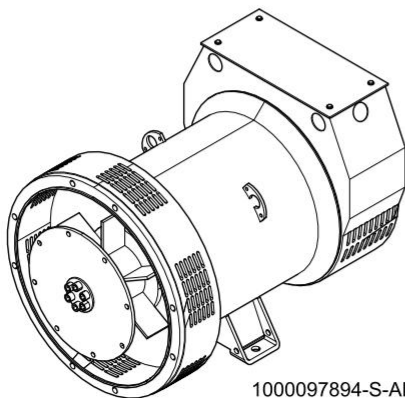
Voltage	380V	400V	415V	440V	
Ampere	45.5A	43.3A	41.7A	39.3A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	2.7	4	5.2	6.7	7.5

Power System



1000078105-AP1-A10

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

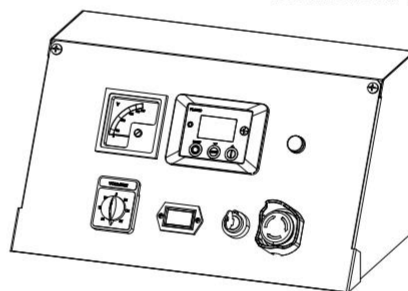


1000097894-S-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	PI144G
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

DSE Control System

1000125316-AP1-C2

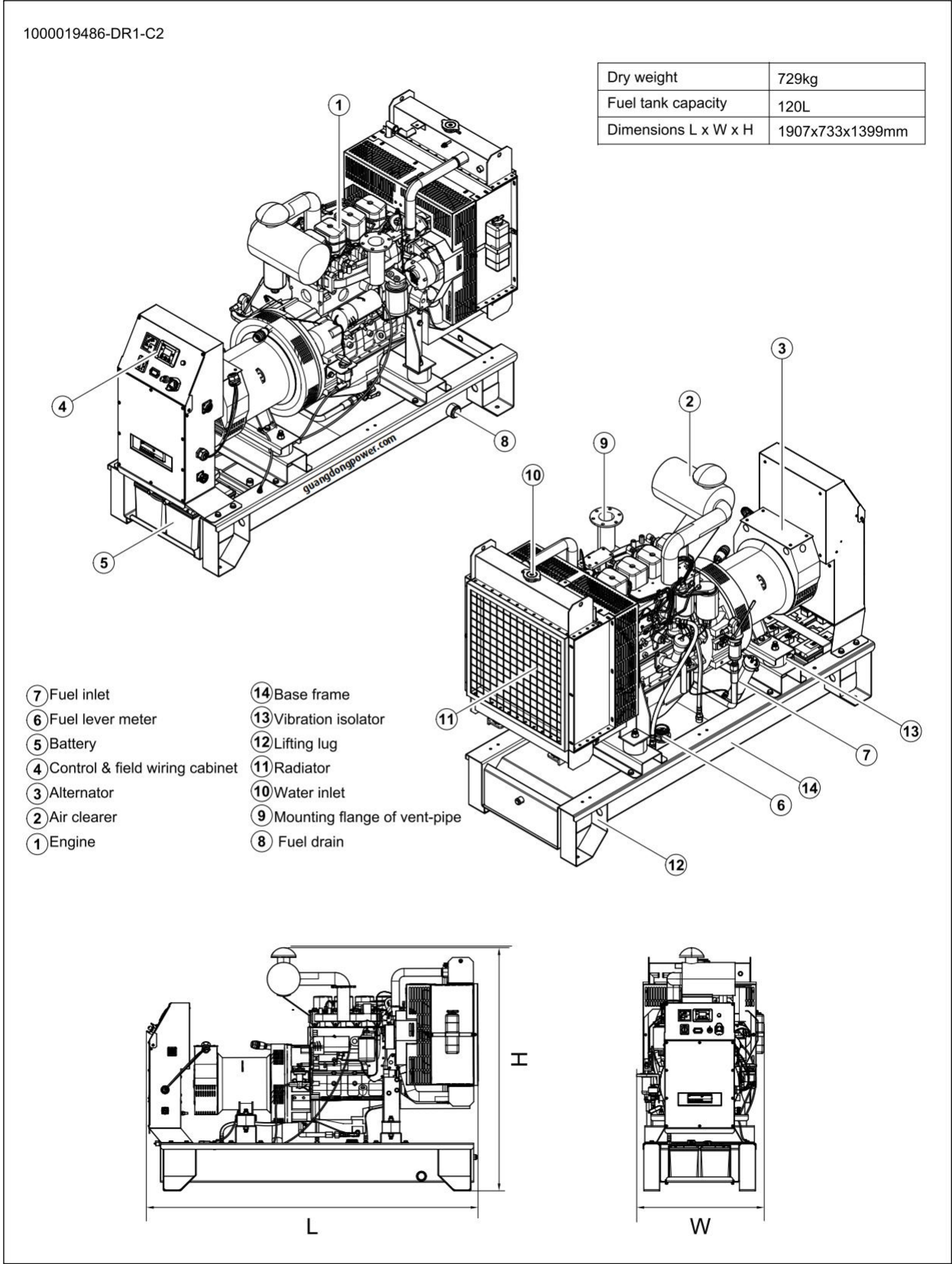


DSE-920 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition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



5. Silent Type Overall Dimensions

1000019427-DR1-D2

