

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (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.

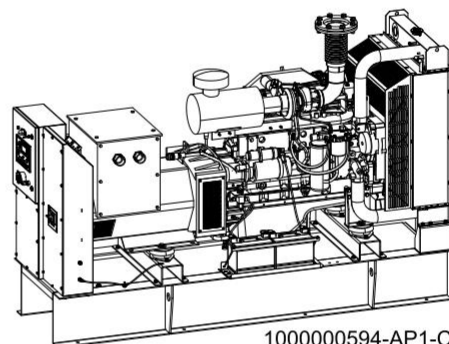
2 General Features

- Cummins engine 6CTA8.3G2
- Coupled to a Leroy-Somer or Stamford alternator
- Microprocessor control module PLC-7420
- MCCB main circuit breaker: 3-Phase 315A
- Rotate speed governor: Electrical governor S6700E
- Excitation System: Self Excited, SHUNT
- A.V.R. Model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 2x12V 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 / Parts List / Specifications

3 Equipment Specification

General technical data

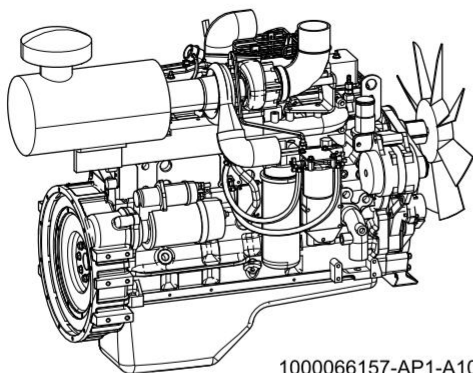


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Model.....G175DG
 Structure type..... A
 Tank capacity.....334L
 Dry weigh..... 1740kg
 Noise level @7m 63.1dBA
 Dimensions L×W×H..... 2667x839x1675mm
 Standby Power 193kVA/154kW
 Prime Power..... 175kVA/140kW

Voltage	380V	400V	415V	440V	
Ampere	266A	253A	243A	230A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	11	20	30	40	45

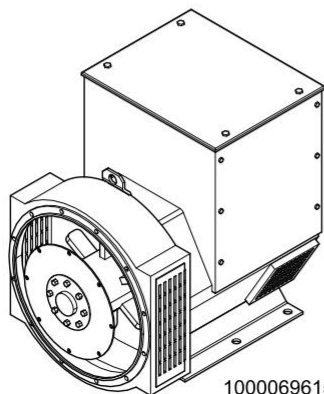
Diesel Engine



1000066157-AP1-A10

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6CTA8.3G2
Dimensions L×W×H.....	1128x740x1084mm
Dry Weigh (approx.)	629kg
Number of Cylinders.....	6
Bore.....	114mm
Stroke	135mm
Displacement.....	8.3L
Compression Ratio.....	16.5
Type of injection.....	Direct injection
Intake System.....	Turbocharged,water-to-air charge cooled
Intake Resistance.....	≤6.28kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12/24V
Type of Fuel.....	0# or -10# light diesel
Type of Oil	15W40-CF4
Oil Capacity	24L
Type of Coolant	Glycol mixture
Coolant Capacity	38L
Back Pressure	≤10.1kPa
Standby Power	180kW
Prime Power	163kW
Fuel Consumption(100%load).....	210g/kW.h

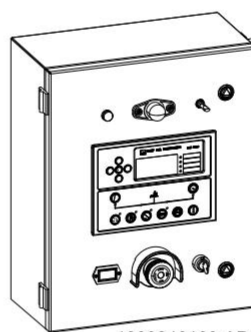
Alternator



1000069615-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	UCI274G
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.....	0.514m³/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-7320 Control System



1000246160-AP1-A1

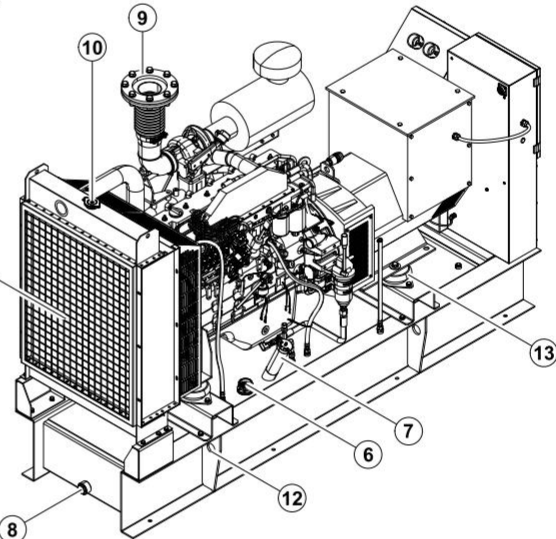
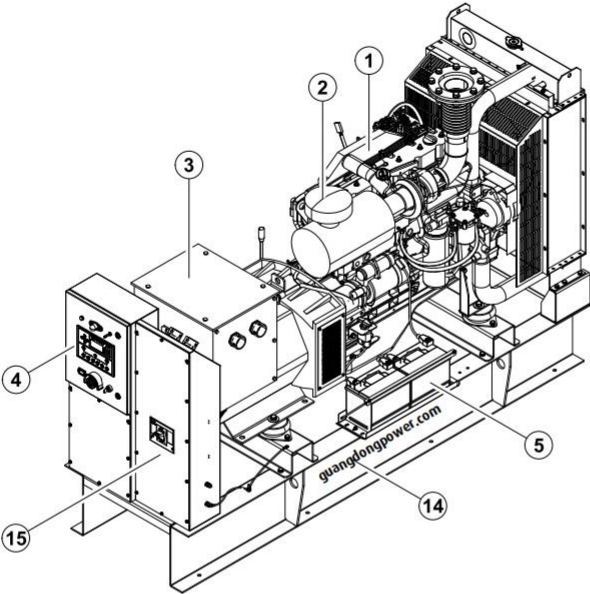
DSE-7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

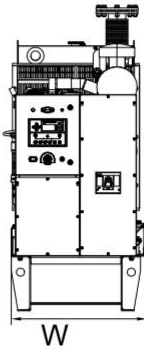
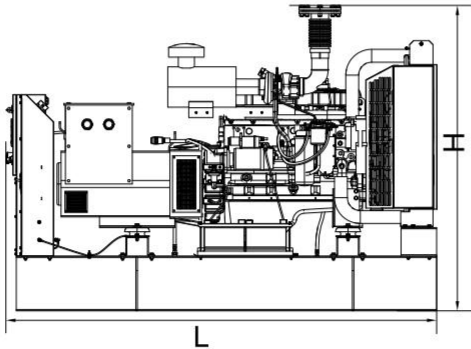
4. Open Type Overall Dimensions

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Dry weight	1740kg
Fuel tank capacity	334L
Dimensions L x W x H	2667x839x1675mm

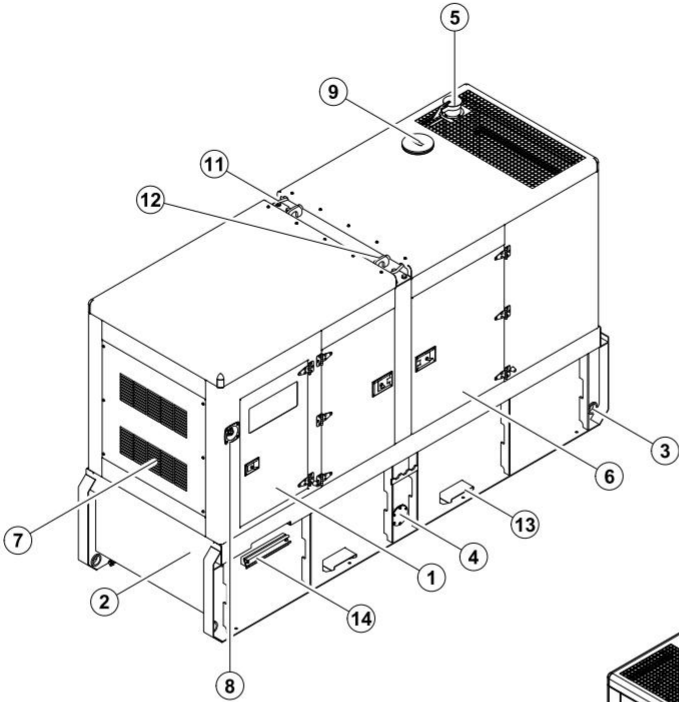


- ⑧ Fuel drain
- ⑦ Fuel inlet
- ⑥ Fuel lever meter
- ⑤ Battery
- ④ Control cabinet
- ③ Alternator
- ② Air clearer
- ① Engine
- ⑮ Switch cabinet
- ⑭ Base frame
- ⑬ Vibration isolator
- ⑫ Lifting lug
- ⑪ Radiator
- ⑩ Water inlet
- ⑨ Mounting flange of vent-pipe

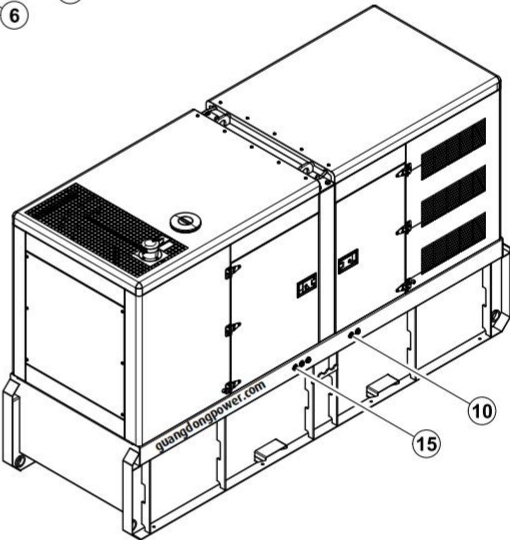


5. Silent Type Overall Dimensions

1000020739-DR1-B5



Dry weight	2805.5kg
Fuel tank capacity	1200L
Dimensions L x W x H	3500x1255x2148.6mm



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

