

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.

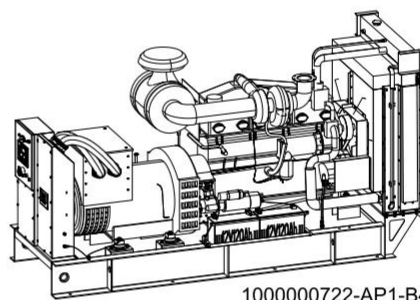
2 General Features

- Cummins engine NTA855-G4
- Coupled to a Leroy-Somer or Stamford alternator
- Microprocessor control module PLC-7420
- MCCB main circuit breaker: 630A
- Rotate speed governor: Electrical governor FP801
- Excitation System: Self Excited, SHUNT
- A.V.R. Model: AS440
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- 50°C radiator
- Oil pump on the engine
- Steel base frame with lifting lug
- 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

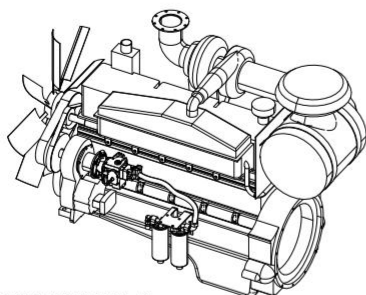
General technical data



Model.....	G350DG
Structure type	A
Tank capacity.....	410L
Dry weight.....	5758kg
Noise level @7m	97.5dBA
Dimensions L×W×H.....	3363×1137×1830mm
Standby Power	385kVA/308kW
Prime Power	350kVA/280kW

Voltage	380V	400V	415V	440V
Ampere	532A	505A	487A	459A

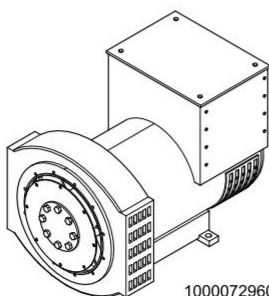
Diesel engine



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Engine Manufacturer/Brand	Cummins
Engine Model	NTA855-G4
Dimensions L×W×H	2055x990x1535mm
Dry Weight (approx.)	1410Kg
Number of Cylinders	6
Bore	140mm
Stroke	152mm
Displacement	14L
Compression Ratio	14
Type of injection	Direct injection
Intake System	Turbocharged
Intake Resistance	≤6.25kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel	No.2-D per ASTM D975
Type of Oil	API CD/SE or CCMCD4
Oil Capacity	38.6L
Type of Coolant	Glycol mixture
Coolant Capacity	60.6L
Heat Rejected To Exhaust System. 198kW(11280BTU/min)	
Heat Rejected To Water&Oil	238kW(13530BTU/min)
Back Pressure	≤10kPa
Standby Power	351kW
Prime Power	317kW
Fuel Consumption(100%load)	76L/h

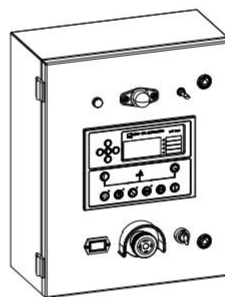
Alternator



1000072960-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	HCI444E
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	0.8m³/s(50HZ), 0.99m³/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



1000246420-AP1-A1

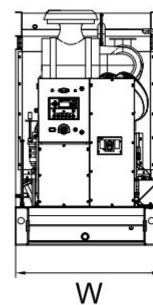
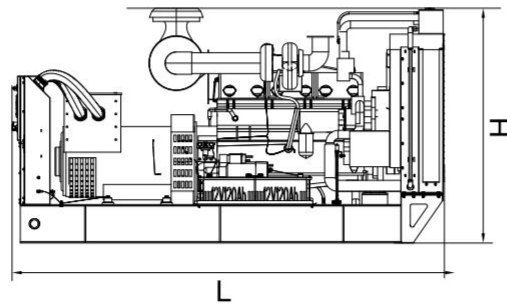
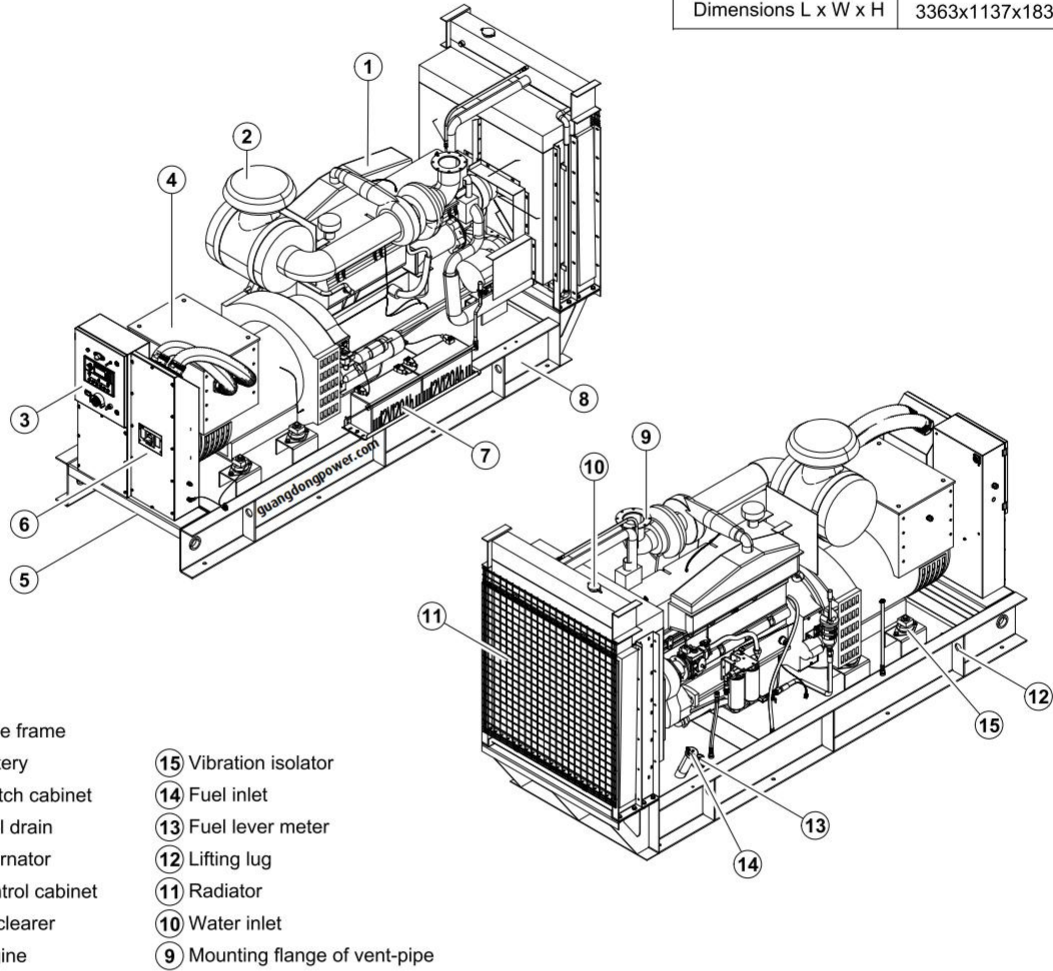
DSE-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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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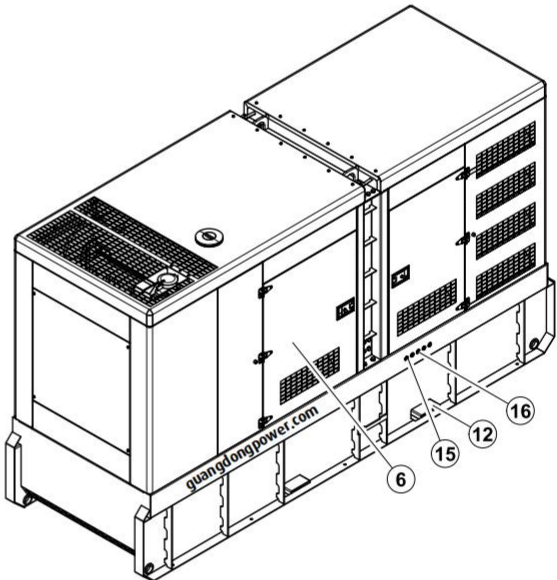
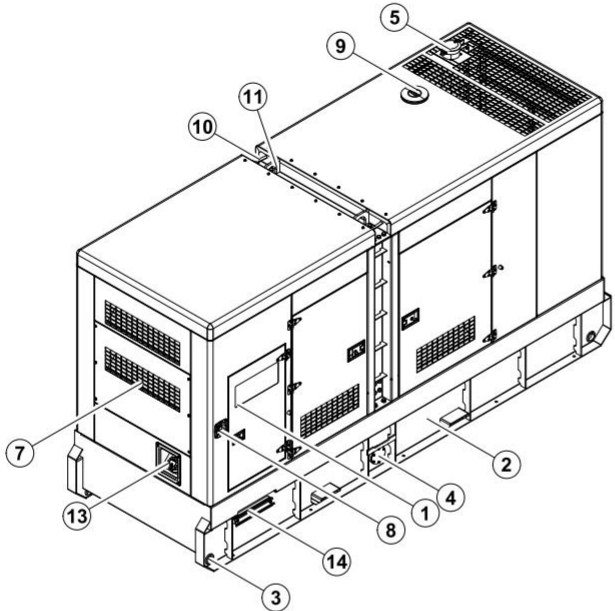
Dry weight	5758kg
Fuel tank capacity	410L
Dimensions L x W x H	3363x1137x1830mm



5. Silent Type Overall Dimensions

1000020743-DR1-C6

Dry weight	4807kg
Fuel tank capacity	1650L
Dimensions L x W x H	4245x1465x2425mm



- 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
- ⑬ External fuel inlet/return hose fitting
- ⑫ Coolant/Oil drain hose fitting
- ⑪ Cable trench
- ⑩ Fuel inlet
- ⑨ Fork lift channel
- ⑪ Lifting lug
- ⑩ Roping lug
- ⑨ Coolant inlet

