

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: Outdoors or 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.

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.

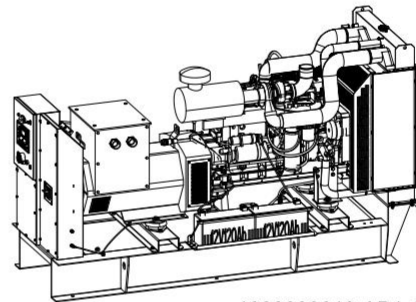
2 General Features

- Cummins engine 6CTAA8.3G2
- Close coupled to a Stamford alternator UCI274H
- Microprocessor control module PLC-7420
- MCCB main circuit breaker: 315A
- Rotate speed governor: Electrical governor S6700E
- Excitation system: PMG
- A.V.R model: MX341
- 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 lugs
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 8 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

General technical data

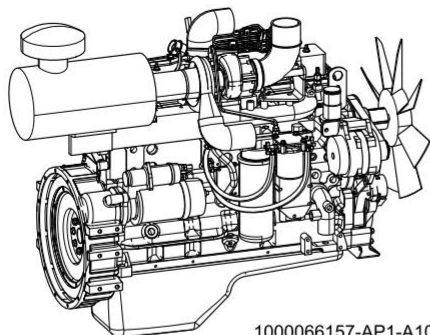


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Model..... HCL200C
 Structure type A
 Tank capacity..... 370L
 Dry weight..... 1844kg
 Noise level @7m 94.5dBA
 Dimensions L×W×H..... 2760×950×1585mm
 Standby Power 212kVA/169.6kW
 Prime Power 200kVA/160kW

Voltage	380V	400V	415V	440V	
Ampere	303.9A	288.7A	278.2A	262.4A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	13.5	23.3	34.0	45.4	51.4

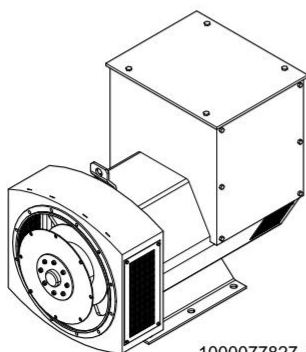
Diesel Engine



1000066157-AP1-A10

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6CTAA8.3G2
Dimensions L×W×H.....	1485.3*866.5*1245.0
Dry Weigh (approx.)	702kg
Number of Cylinders.....	6
Bore.....	114mm
Stroke	135mm
Displacement.....	8.3L
Compression Ratio	16.7
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.....	Diesel
Type of Oil	ACEA E2, API CF, CF-4, CG-4
Oil Capacity	23.8L
Type of Coolant	Glycol mixture
Coolant Capacity	45.3L
Back Pressure	≤10.1kPa
Standby Power	203kW
Prime Power	183kW
Fuel Consumption(100%load).....	45L/h

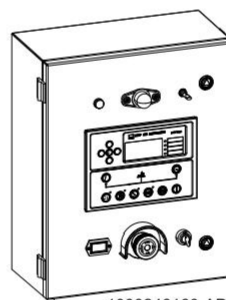
Alternator



1000077827-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	UC1274H
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



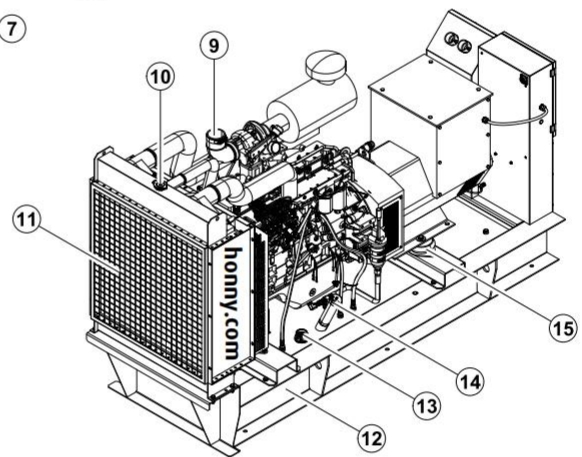
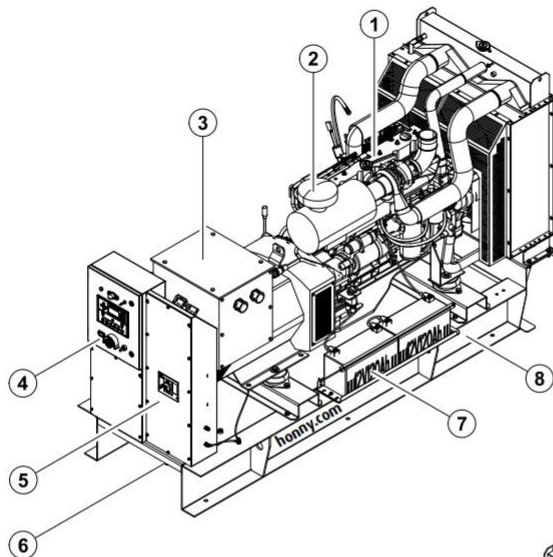
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DSE-7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal.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

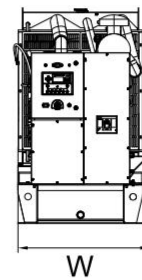
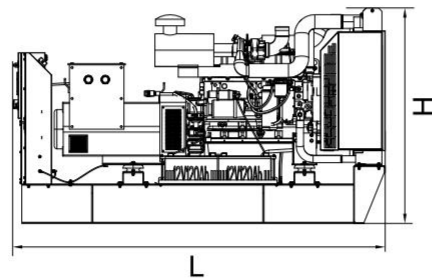
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, 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

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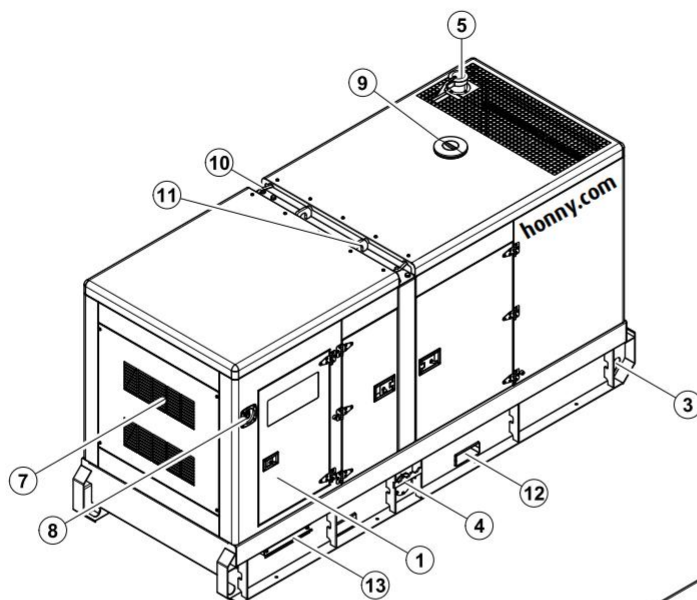
Dry weight	1844kg
Fuel tank capacity	370L
Dimensions L x W x H	2760x950x1585mm



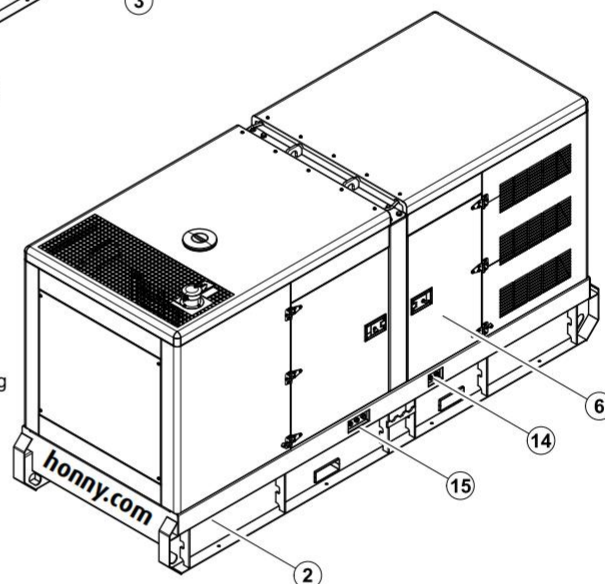
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|-------------------|--------------------------------|
| ⑧ Base frame | ⑮ Vibration isolator |
| ⑦ Battery | ⑭ Fuel inlet |
| ⑥ Fuel drain | ⑬ Fuel lever meter |
| ⑤ Switch cabinet | ⑫ Lifting lug |
| ④ Control cabinet | ⑪ Radiator |
| ③ Alternator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



1000008863-DR1-B4



Dry weight	2699kg
Fuel tank capacity	510L
Dimensions L x W x H	3592x1300x1840mm



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

