# *Cumins series*
# *HCL130C*
***50 Hz @ 1500rpm,3-phase/4-wiring***

## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009

### Environmental Operating Conditions

- Installation place: Indoors (well ventilated).
- Ambient temperature: -25℃ to 50℃. The coolant heater is needed when the temperature is below 5℃
- 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

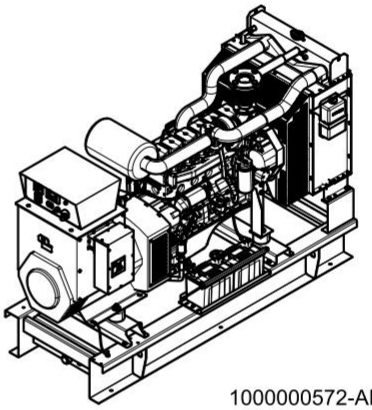
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

## 2 General Features

- Cummins engine 6BTAA5.9-G2
- Close coupled to a Stamford alternator UCI274E
- 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℃ 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



1000000572-AP1-D2

Model.....HCL130C
Structure Type .....Open Type
Tank capacity.....260L
Dry weight.....1310kg
Sound pressure level @7m .....N/A
Sound power acc. 2000/14/EC .....N/A
Dimensions L×W×H.....2316x889x1540mm
Standby Power ..... 145kVA/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 |

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## Power System

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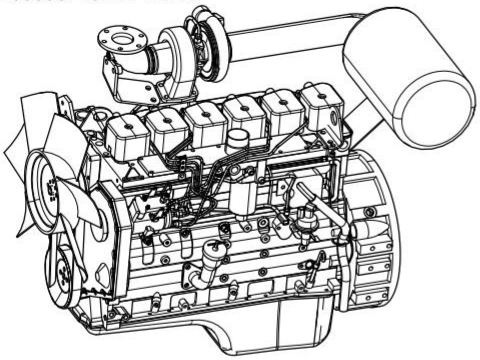
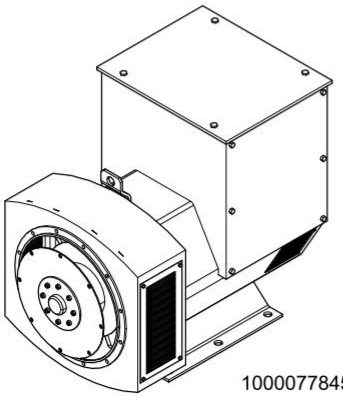


| | |
|---|---|
| Engine Manufacturer/Brand | Cummins |
| Engine Model | 6BTAA5.9G2 |
| Dimensions L×W×H | 1184.7*655.7*981.3 |
| Dry Weigh (approx.) | 411kg |
| Number of Cylinders | 6 |
| Bore | 102mm |
| Stroke | 120mm |
| Displacement | 5.9L |
| Compression Ratio | 16.8 |
| Type of injection | Direct 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 |



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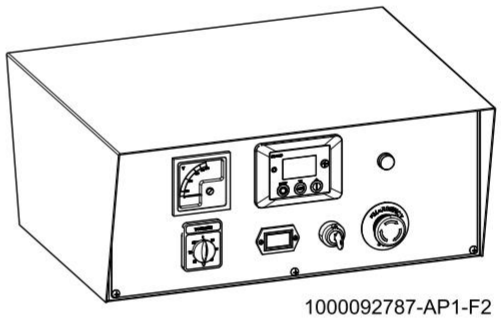
| | |
|---|---|
| Alternator Manufacturer/Brand | Stamford |
| Alternator Model | UCI274E |
| Exciter | Brushless |
| Cooling Fan | Cast alloy aluminum |
| Windings | 100% copper |
| Insulation Class | H |
| Winding Pitch | 2/3 |
| Terminals | 12 |
| Drip Proof | IP23 |
| Altitude | ≤1000m |
| Overspeed | 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



1000092787-AP1-F2

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

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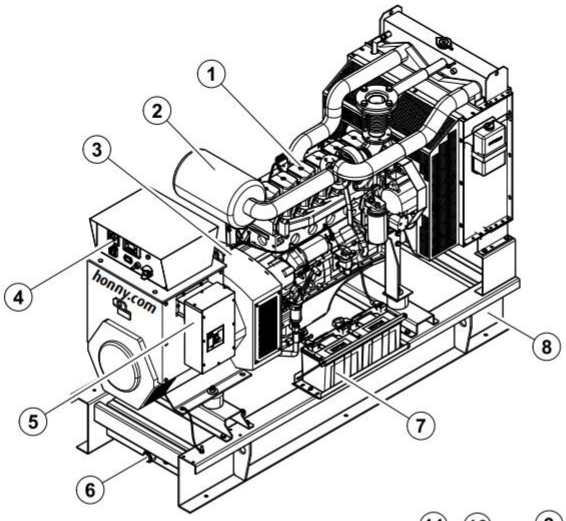
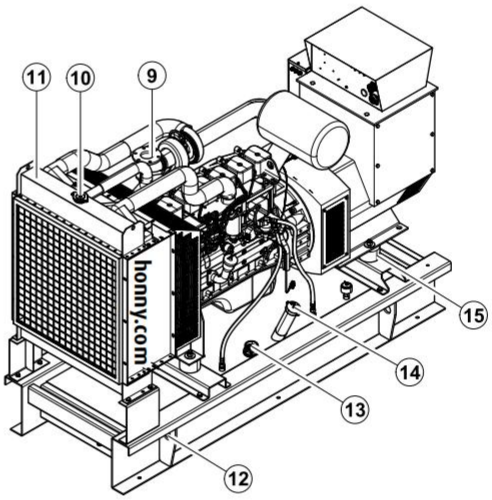
# 4. Open Type Overall Dimensions

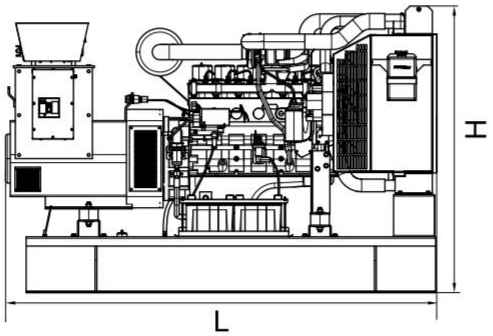
1000000572-DR1-D2

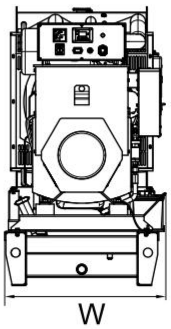
| | |
|---|---|
| Dry weight | 1309kg |
| Fuel tank capacity | 260L |
| Dimensions L x W x H | 2316x889x1540mm |




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

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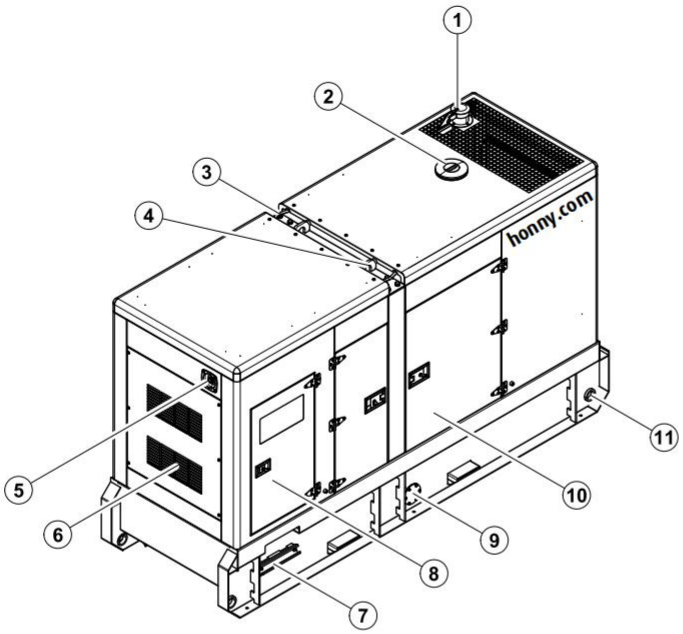
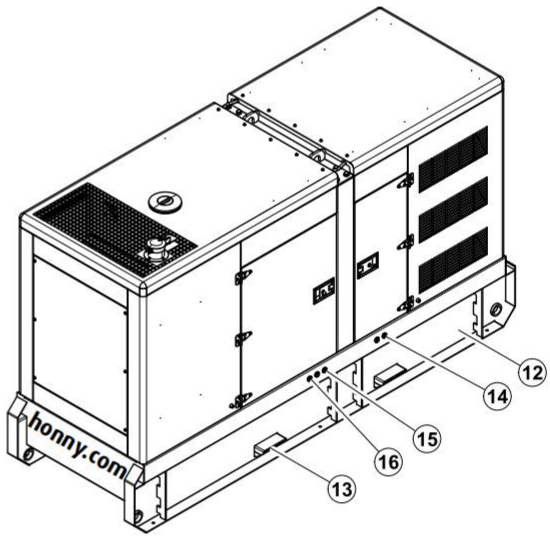
# 5. Silent Type Overall Dimensions

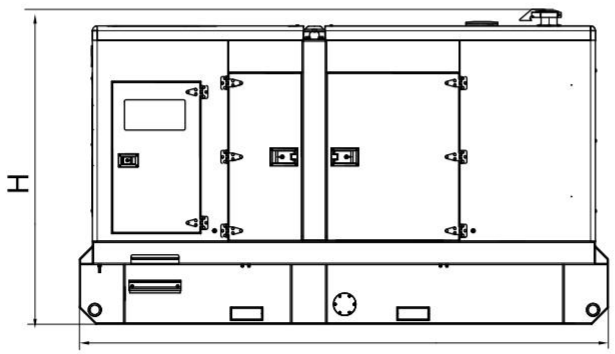
1000008817-DR1-G3

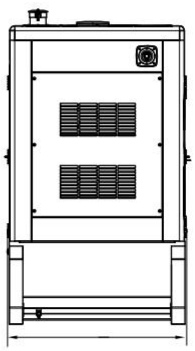
| | |
|---|---|
| Dry weight | 2223kg |
| Fuel tank capacity | 580L |
| Dimensions L x W x H | 3312x1122x1974mm |




(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
(16) Coolant drain hose fitting
(15) External fuel inlet/return hose fitting
(14) Oil drain hose fitting
(13) Fork lift channel
(12) Base frame
(11) Tie down
(10) Access door

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