

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- China Compulsory Certification (CCC)
- TLC Quality Certification (TLC)
- ISO8528-1995
- GB/T2820-1997

Environmental Operating Conditions

- Installation place: Indoors (well ventilated).
- Ambient temperature: -25°C to 45°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.

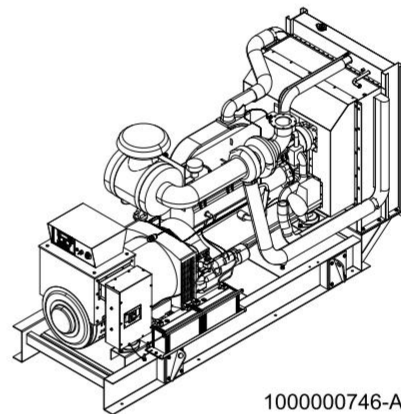
2 General Features

- Cummins engine NTAA855-G7A
- Close coupled to a Stamford alternator HCI444FS
- Microprocessor control module PLC-5220
- MCCB main circuit breaker: 3-Phase 630A
- Rotate speed governor: Electrical governor FP801
- Excitation System: Self Excited
- 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
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Drain points for fuel tank
- Operation Manual / Parts List / Specifications

3 Equipment Specification

General technical data

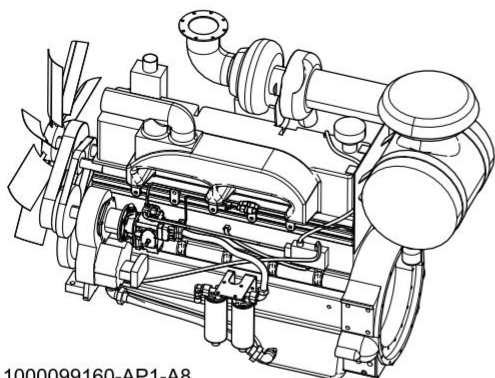


1000000746-AP1-A3

Model.....HCL375C
 Structure type A
 Tank capacity.....410L
 Dry weigh.....3060kg
 Noise level @7mN/A
 Dimensions L×W×H.....3233×1278×1831mm
 Standby Power 413kVA/330kW
 Prime Power..... 375kVA/300kW

Voltage	380V	400V	415V
Ampere	570A	541A	522A

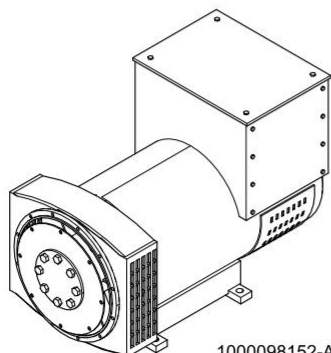
Diesel engine



1000099160-AP1-A8

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	NTAA855G7A
Dimensions L×W×H.....	1964×987×1610mm
Dry Weigh (approx.)	1270kg
Number of Cylinders.....	6
Bore.....	140mm
Stroke	152mm
Displacement.....	14L
Compression Ratio	14
Type of injection.....	Direct injection
Intake System.....	Turbocharged, air-to-air charged cooled
Intake Resistance.....	≤6.22KPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil	API CD/SE or CCMCD4
Oil Capacity	38.6L
Type of Coolant	Glycol mixture
Coolant Capacity	60.6L
Back Pressure	≤10KPa
Standby Power	407kW
Continuous Power	372kW
Fuel Consumption(100%load).....	108L/h

Alternator

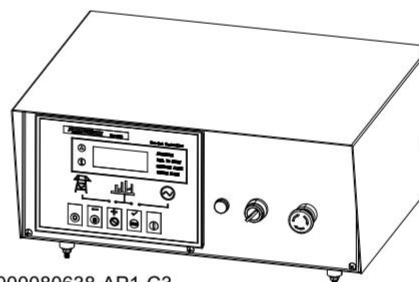


1000098152-AP1-A1

Alternator Manufacturer/Brand	Stamford
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Alternator Model	HCI444FS
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.....	0.8 m³/s(50Hz), 0.99 m³/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



1000080638-AP1-C3

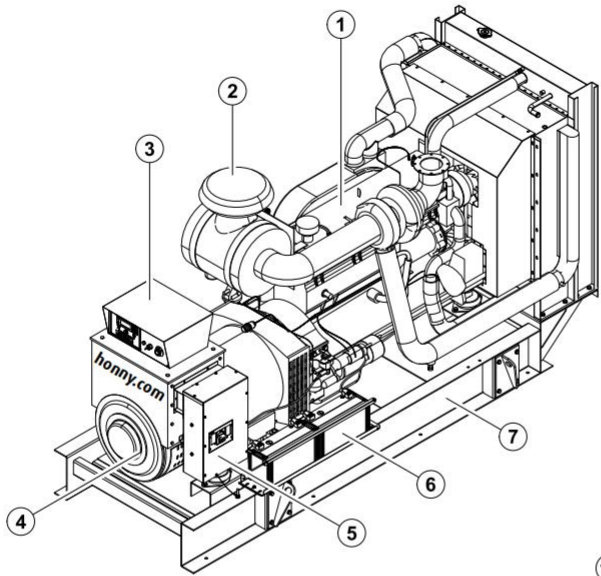
DSE-5220 is an automatic mains failure control module. It is used to monitor the mains supply and automatically start and stop the engine. The module indicates the operational status and fault conditions, automatically shutting down the engine and indicating engine failure on the LCD.

- Microprocessor control, with high stability and credibility
- Mains supply and generator operation monitoring
- Indicating operation status and fault conditions
- Multiple protections; multiple parameters display, like pressure, temp.
- Manual and automatic work mode selectable
- Real time clock for time and date display, overall runtime display, 99 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

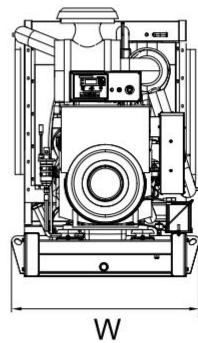
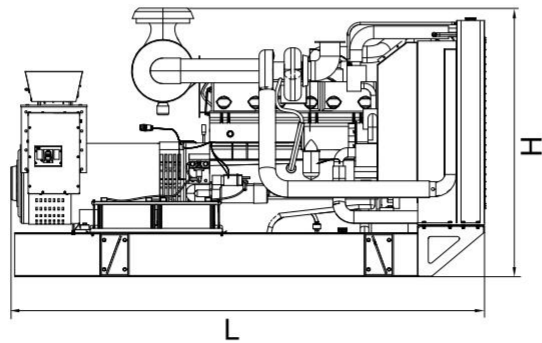
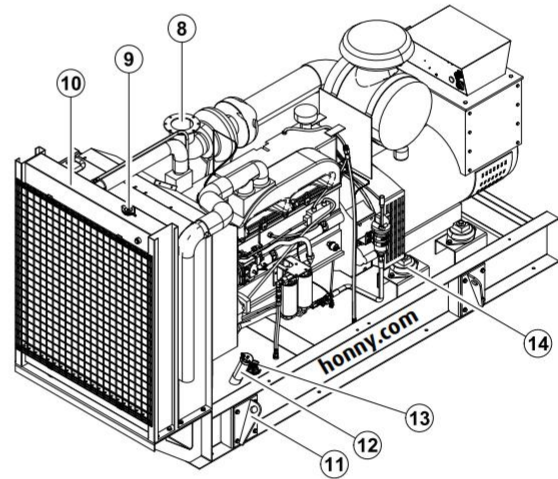
4. Open Type Overall Dimensions

1000000746-DR1-A3

Dry weight	3060kg
Fuel tank capacity	410L
Dimensions L x W x H	3233x1278x1831mm

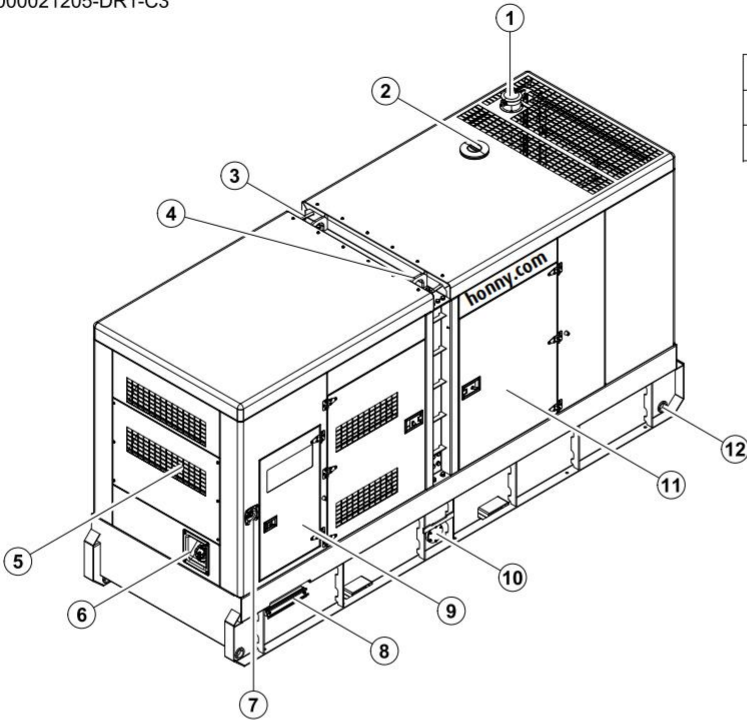


- ⑦ Base frame
- ⑥ Battery
- ⑤ Switch cabinet
- ④ Alternator
- ③ Control cabinet
- ② Air clearer
- ① Engine
- ⑭ Vibration isolator
- ⑬ Fuel lever meter
- ⑫ Fuel inlet
- ⑪ Lifting lug
- ⑩ Radiator
- ⑨ Water inlet
- ⑧ Mounting flange of vent-pipe



5. Silent Type Overall Dimensions

1000021205-DR1-C3



Dry weight	4853kg
Fuel tank capacity	850L
Dimensions L x W x H	4442x1473x2382mm

- ⑧ Cable trench
- ⑦ Emergency stop switch
- ⑥ Fuel inlet
- ⑤ Air inlet
- ④ Lifting lug
- ③ Roping lug
- ② Coolant inlet
- ① Exhaust gas outlet
- ⑬ Base frame
- ⑫ Tie down
- ⑪ Access door
- ⑩ Fuel drain
- ⑨ Control cabinet
- ⑮ External fuel inlet/return hose fitting
- ⑭ Fork lift channel
- ⑯ Coolant/Oil drain hose fitting

