

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- China Compulsory Certification (CCC)
- 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.

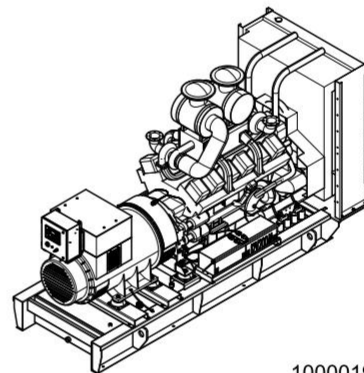
2 General Features

- Cummins engine KTA38-G2
- Close coupled to a Stamford alternator LVI634B
- Microprocessor control module PLC-AMF20
- Rotate speed governor: Electrical governor
- Excitation System: Self excited, SHUNT
- A.V.R. Model: MX321
- Key switch
- Emergency stop switch

- ATS (automatic transfer switch) receptacle
- 4x12V 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 / Specifications

3 Equipment Specification

General technical data

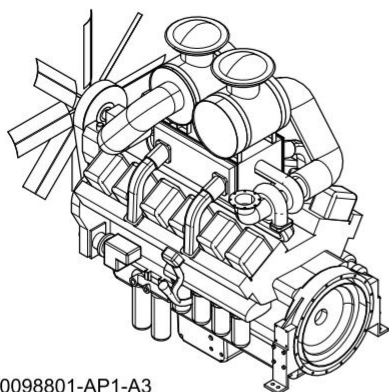


1000019909-AP1-B4

Model..... HCL750C
 Structure typeOpen type
 Tank capacity.....1300L
 Dry weigh..... 7077kg
 Noise level @7m N/A
 Dimensions L×W×H..... 4467x1750x2670mm
 Standby Power 775kVA/620kW
 Prime Power 750kVA/600kW

Voltage	380V	400V	415V
Ampere	1140A	1083A	1043A

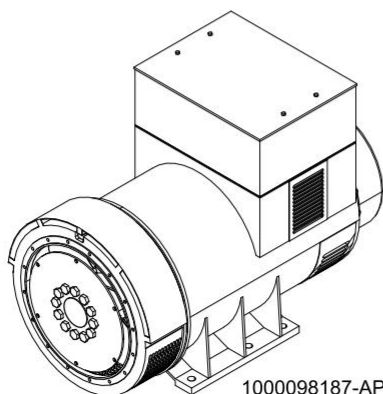
Diesel engine



1000098801-AP1-A3

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	KTA38G2
Dimensions L×W×H.....	2260.5×1338.9×2332.7mm
Dry Weigh (approx.)	3723kg
Number of Cylinders.....	12
Bore.....	159mm
Stroke	159mm
Displacement.....	37.8L
Compression Ratio.....	14.5
Type of injection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance.....	≤6.23KPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil	APICD/SE or CCMCD4
Oil Capacity	135L
Type of Coolant	Glycol mixture
Coolant Capacity	210L
Back Pressure	≤10KPa
Standby Power	731kW
Continuous Power	664kW
Fuel Consumption(100%load).....	167L/h

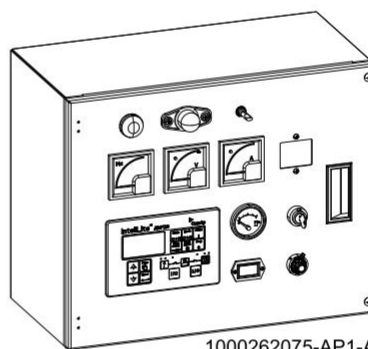
Alternator



1000098187-AP1-A3

Alternator Manufacturer/Brand	Stamford
Alternator Model	LVI634B
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.....	2.18m³/s(50Hz),2.63m³/s(60Hz)
Voltage Regulation	±0.5%
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-AMF Control System



1000262075-AP1-A1

PLC-AMF 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, 200 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

Open Type Overall Dimensions

