

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Europeenne (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 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.

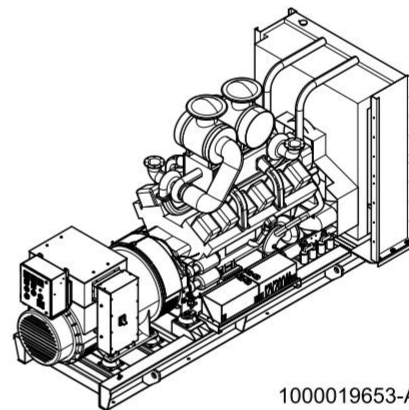
2 General Features

- Cummins engine KTA38-G2B
- Close coupled to a Stamford alternator LVI634C
- Microprocessor control module PLC-702
- DMA main circuit breaker: 1250A
- 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/200AH 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
- Operation Manual / Specifications

3 Equipment Specification

General technical data

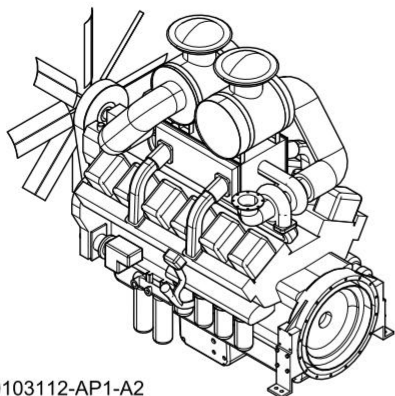


1000019653-AP1-D3

Model.....HCL800C
Structure type..... A
Dry weigh.....6607kg
Noise level @7m..... N/A
Dimensions L×W×H..... 4445x1720x2425mm
Standby Power..... 825kVA/660kW
Prime Power..... 800kVA/640kW

Voltage	380V	400V	415V	440V	
Ampere	1216A	1155A	1113A	1050A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	42	83	120	160	181

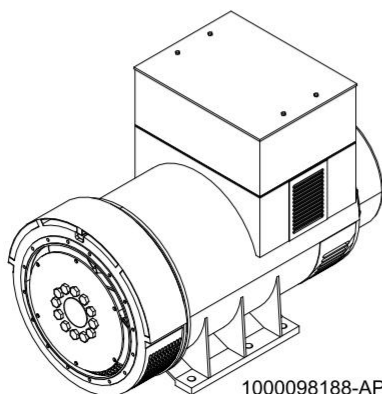
Diesel engine



1000103112-AP1-A2

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	KTA38-G2B
Dimensions L×W×H.....	2265.0x1379x2231.9
Dry Weigh (approx.)	3723kg
Number of Cylinders.....	12
Bore.....	159mm
Stroke	159mm
Displacement.....	37.5L
Compression Ratio.....	14.5
Type of injection.....	Direct injection
Intake System.....	Turbo charged
Intake Resistance.....	6.23kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil	CF4/SG15W-40
Oil Capacity	135L
Type of Coolant	Glycol mixture
Coolant Capacity	194L
Back Pressure	≤10kPa
Standby Power	789kW
Prime Power	711kW
Fuel Consumption(100%load).....	160L/h

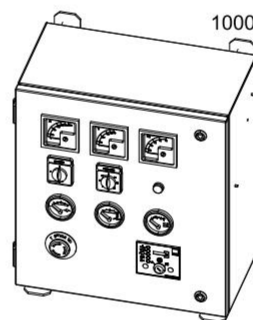
Alternator



1000098188-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	LVI634C
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-702 Control System



1000113108-AP1-C6

PLC-702 key manual start module is a manual engine control module 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

4. Open Type Overall Dimensions

