

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance European (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.

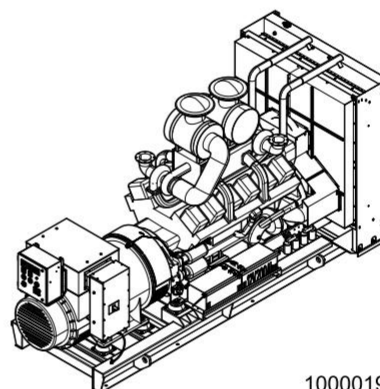
2 General Features

- Cummins engine KTA38G2A
- Close coupled to a Stamford alternator LVI634D
- Microprocessor control module ComAp or UK DSE
- MCCB genset circuit breaker: 3-Phase 1600A
- 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
- 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
- Operation Manual / Parts List/ Specifications

3 Equipment Specification

General technical data

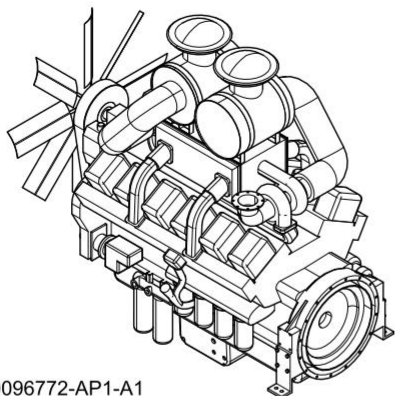


1000019903-AP1-C6

Model.....HCL900C
 Structure typeOpen Type
 Dry weigh.....6627kg
 Noise level @7m 99.3dBA
 Dimensions L×W×H..... 4344x2030x2425mm
 Standby Power 990kVA/792kW
 Prime Power 900kVA/720kW

Voltage	380V	400V	415V
Ampere	1368A	1300A	1252A

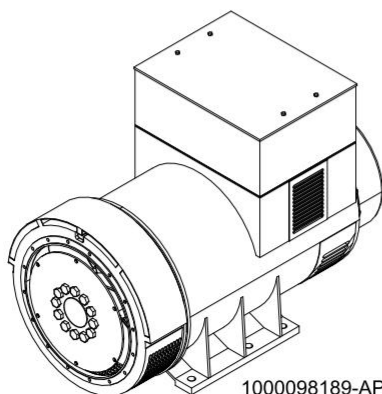
Diesel engine



1000096772-AP1-A1

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	KTA38-G2A
Dimensions L×W×H.....	N/A
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	895kW
Continuous Power	813kW
Fuel Consumption(100%load).....	191L/h

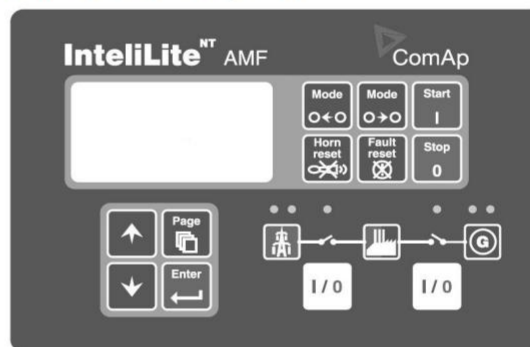
Alternator



1000098189-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	LV1634D
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

AMF-20 Control System



AMF-20 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

4. Open Type Overall Dimensions

1000019903-DR1-C6

Dry weight	6618kg
Dimensions L x W x H	4450x1720x2425mm

