

## General Feature:

- ◆ Assembled diesel engine and alternator.
- ◆ filters as standard, fuel and water separator as optional.
- ◆ Radiator and fan with safety guard.
- ◆ Single bearing alternator IP 23, Insulation Class H.
- ◆ Heavy duty steel as base frame and operation base fuel tank.
- ◆ Automatic control panel and 3 poles circuit breaker, internal cables.
- ◆ 12V or 24V battery, battery wires.
- ◆ Battery charger and float battery charger as standard supply scope.
- ◆ Optional soundproof canopy, ATS, synchronization panel, movable trailers



## Genset Main technical data

Gen. Version	Open Type	Silent Type
Genset Model	STG-C1250	STG-C1250S
Standby power	1000kw / 1250kva	
Prime power	900kw / 1125kva	
Frequency/speed	50Hz / 1500r.p.m	
Rated Voltage	400V	
Max. Ampere	1804A	
Rated Current	1623A	
Sound level @7m	-	≤ 89dB(A)

## ENGINE

Engine on rigid common bed is designed to have following characteristics.

ENGINE DATA	CUMMINS	
■ Engine Model	KTA38-G9	
■ Aspiration	Turbocharged & Aftercooled	
■ Fuel system	Cummins PT	
■ Arrangement	4 Cycle, 60° Vee	
■ No Cylinder	12	
■ Displacement	L	37.8
■ Bore*Stroke	mm	159*159
■ Compression ratio	13.9:1	
■ Rated speed	r.p.m	1500
■ Rated net power with fan	Kw	1089
■ Governor type	EFC Electrical	
■ Start Motor	V	24

## Standards Reference

**PRP:** Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation. In accordance with ISO 3046-1.

**ESP:** The Standby Power Rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

**A/AMP:** Rated Current is Ampere will be flexible if performance by load test, it's depended on Power factor that is shown on load in LCD screen display panel. [ 0.8p.f - 0.99p.f - ≤ 1.0p.f]. On load Amperes is not based, the specific standard report base on load as (KW)@PRP.

- Engines with advanced design, reliable performance, durable operation.
- Alloy-steel and connecting steel-lever, high durability.
- High combustion efficiency and low fuel consumption, work continuously.
- Direct Injection technology, low cost, completely combustion.

Note: All data sheets are for reference only and subject to change without prior notice

# CUMMINS SERIES

Specification Data Sheet



## Exhaust System

Exhaust gas flow	L/s	3540
Exhaust gas flow	°C	529
Max back pressure	kPa	10

## Fuel System

Consumption 100%	L/h; (@PRP)	256
Consumption 75%	L/h; (@PRP)	196
Consumption 50%	L/h; (@PRP)	137
Consumption 25%	L/h; (@PRP)	79

## Cooling System

Cooling Capacity	L	125
Thermostat operation rage	°C	82-95
Oil pressure	°C	104

## Aspiration System

Max inlet pressure	kPa	6.23
Combustion	m3/min	67.56
Air flow	L/s	1309

## Lubrication System

Oil Capacity	L	135
Oil Consumption	g/kwh	≤4
Oil pressure	kPa	310-448

## Dimensions and Weights

Genset. Type	Open	Silent
Length (mm)	4400	6058
Width (mm)	2100	2250
Height (mm)	2500	2550
Weight (kg)	7780	11730
Fuel tank (Liters)	-	1200

## ALTERNATOR

Alternator on rigid common bed is designed to have following characteristics.

### ALTERNATOR DATA

### LEROY SOMER

■ Alternator Model	LSA50.2 M6	
■ Phase No.	3	
■ Enclose	IP23	
■ Bearing	1	
■ Power factor	Lagging	0.8
■ Frequency	Hertz	50
■ Coupling	Direct	
■ Exciter	Type	AREP
■ Voltage regulator	Type	AVR
■ Altitude	m	≤1000
■ Insulation grade	Class	H/H
■ Altitude	m	≤1000



#### More Information

Contact your local dealer for more information regarding of Diesel Generator and optional equipment or visit: [www.satoshipowergroup.com](http://www.satoshipowergroup.com).

**SATOSHI POWER > DIESEL  
GENERATOR  
SET**

## CONTROL PANEL

Controller is designed to have following characteristics.

### DSE7320

Auto Mains (Utility) Failure Control Module.

The **DSE7320** is a powerful, new generation Auto Mains (Utility) Failure genset control module with a highly sophisticated level of new features and functions.



#### Protection function

- Two sets of protection parameters can be preset
- Normal alarm, electrical trip and shutdown alarm can be set to effectively monitor the engine speed, oil pressure, water temperature and oil level, as well as the frequency, voltage, current and power of the alternator, for complete engine/alternator protection
- Low Oil Pressure
- High water Temperature
- High voltage and low voltage
- Overspeed
- Emergency stop
- Fail to start

#### Main Features

- Multi language display
- Mains failure self-starting
- The running time of the engine can be recorded to facilitate the maintenance and repair of the unit
- User-friendly set-up and button layout
- LCD display can display multiple parameters at the same time
- Support EFI engine
- IP65 rating (with optional gasket)
- PC and front panel configuration
- 100 event records
- Data recording and trend analysis

#### Key Features

- Auto start/stop, load transfer and alarming of generator
- Remote start on or off load
- With hierarchical loading function
- Multiple start/stop cycles can be preset
- 3 phase generator and mains voltage monitoring.
- Generator/load power detection (kW, kVA, kVA<sub>r</sub> PF)
- Overload protection (kW)
- Load current monitoring and protection
- Engine speed protection
- Engine pre-heat
- Engine start idle & stop idle
- Battery voltage monitoring
- Start under the low battery
- 4 active outputs
- 4 digital inputs and 3 analogue inputs.
- 6 Custom digital input
- 6 outputs (4 configurable on magnetic pick-up, 6 configurable on Can bus version)
- DSE2130, DSE2157, DSE2548 expansion module can be connected
- Support 0--10V or 4-20mA oil pressure sensor.

## Standard feature

- Engine: Diesel engine
- Radiator 50°C max, fans are driven by belt
- 24V charge alternator
- Alternator: single bearing alternator IP23, insulation class H/H
- Standard auto control system
- One set of air filter, fuel filter, oil filter
- Main line circuit breaker
- Base fuel tank
- Batteries, rac and cable
- Exhaust system (Ripple flex exhaust pipe, exhaust siphon, flange, muffler).
- Battery Charger

## Optional feature

- Engine heater
- Alternator heater
- PMG
- Water oil separator
- Daily fuel tank
- Remote control panel
- Automatic transfer switch/ATS Built-in
- Synchronized parallel built- in
- Switch box

More information, pls refer to our web-site: [www.satoshipowergroup.com](http://www.satoshipowergroup.com)

Manufacturer reserves the right to make changing in model, technical specification, color, equipment and accessories without notice.



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