

## 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-IS70	STG-IS70S
Standby power	56kw / 70kva	
Prime power	50kw / 62.5kva	
Frequency/speed	50Hz / 1500r.p.m	
Rated Voltage	380V	
Max. Ampere	105.8A	
Rated Current	94.5A	
Sound level @7m	-	≤ 76dB(A)

## 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.

## ENGINE

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

ENGINE DATA	ISUZU	
■ Engine Model	4BG1-Z	
■ Aspiration	Turbo, Direction, Vertical, Inter-cool	
■ Arrangement	Natural, Water-cooled	
■ Fuel system	A Type	
■ No Cylinder	4	
■ Displacement	L	4.329
■ Bore*Stroke	mm	105*125
■ Compression ratio	18.2:1	
■ Rated speed	r.p.m	1500
■ Rated net power with fan	Kw	59
■ Governor type	Electrical	
■ Start Motor	V	24

- Engine: Industrial 4 stroke cooled diesel engine complete.
- Alternator: Brushless, self-exciting, self-regulation, screen protected.
- Water cooling: Radiator and colling fan complete with protection guards.
- Exhaust system: Heavy duty industrial exhaust silencer with flexible piping.

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

## Exhaust System

Exhaust gas flow	m <sup>3</sup> /min	5.24
Exhaust gas Temp.	°C	500
Max back pressure	kPa	15

## Fuel System

Consumption 100%	L/h; (@PRP)	11.5
Consumption 75%	L/h; (@PRP)	8.5
Consumption 50%	L/h; (@PRP)	5.5

## Cooling System

Cooling Capacity	L	30
Thermostat operation rage	°C	82-95
Oil pressure	°C	104

## Aspiration System

Max inlet pressure	kPa	2.5
Combustion	m <sup>3</sup> /min	2.08
Air flow	m <sup>3</sup> /min	5.94

## Lubrication System

Oil Capacity	L	12
Oil Consumption	g/kwh	0.5
Oil pressure	kPa	38

## Dimensions and Weights

Genset. Type	Open	Silent
Length (mm)	1850	2400
Width (mm)	850	1020
Height (mm)	1210	1300
Weight (kg)	800	1100
Fuel tank (Liters)	-	120

## ALTERNATOR

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

## ALTERNATOR DATA

## SATOSHI POWER

■ Alternator Model	STA224E	
■ Phase No.	3	
■ Protection	IP23	
■ Bearing	1	
■ Power factor	Lagging	0.8
■ Frequency	Hertz	50
■ Winding Leads	12	
■ Exciter	Type	Brushless, Self-excitation
■ Voltage regulator	Type	AVR
■ Altitude	m	≤1000
■ Insulation system	Class H	



## 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.

### DSE6120

Auto Mains (Utility) Failure Control Module.

The **DSE 6120** is an Auto Mains (Utility) Failure Control Module developed to provide a wide range of operating and monitoring features for single diesel and gas gen-sets.



#### 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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