

BRS Business Retail Solutions

Email: office.businessrs@gmail.com

Mobile / WhatsApp : 0764082204

250kva diesel generator set with soundproof canopy

Genset Model	Output power	engine brand	alternator	Voltage	controller
GQRS250	250kva	SDEC	China stamford	380V,50Hz	LCD display



Genset Main Technical Data:

Output Power	250kva
Frequency /Speed	50Hz /1500rpm
Rated Voltage	220V / 380V
Phase No & connection	3 phase,4 wires

Diesel Engine Data:

Engine brand	SDEC
Engine speed	1500rpm
Cylinder No / Arrangement	6/L
Cooling system	Water cooling with fan
Spray style of fuel pump	Direct injection
Fuel consumption	0.24L /kw.h
Exhaust system	Use the industrial noise reduction silencer
Filter system	Use the unitary replaceable lube oil filter, fuel filter and air filter
Air system	Self-Taking dry style Air filter
Startup mode	24V DC Automatic Startup
Battery	charging generator of storage battery, with a set of high-powered storage battery, connected by cable /tie-in with the Genset.

Alternator Specifications:

Characteristics	Brushless & self-excited Alternator, automatism voltage regulation automatism heat driving off, single bearing, brushless alternator
Alternator brand	china stamford
Voltage	220V / 380V
Power factor	0.8
Phase No & connection	3 phase,4 wires
Insulation class	H
Protection class	IP23
Voltage range of Genset	±10%
Steady Voltage Regulation	≤±1 %
Transient voltage Regulation	≤(-15~+20)%

Voltage stabilization	$\leq 1S$
Voltage fluctuation ratio	$\leq 0.5\%$
Steady Frequency Regulation	$\leq \pm 1\%$
Frequency stabilization	$\leq 3S$
Frequency fluctuation ratio	$\leq 0.5\%$

Control system:

it is an auto mains failure controller for single generator, it can monitor and protect the generator working all the time. it has a LCD display which clearly shows the status of the engine. this controller include seven inputs and six outputs. This controller can also be programmed using the frong panel or by using DSE configuration Suite PC software.

Parameters:

This controller can provide Generator frequency, Under/over speed, Generator volts, Generator current, Engine oil pressure, Engine coolant temperature, Flexible fuel level, Hours run counter, Battery volts, Fail to start/stop, Emergency Stop. Failed to reach loading voltage/frequency, Charge fail, Loss of magnetic pick-up signal, Low DC voltage, CAN diagnostics and CAN fail/error, Mains volts 3 phase, Mains frequency, AMF indications

Protection:

- 1.Low Oil Pressure
- 2.High water Temperature
- 3.High voltage and low voltage
- 4.Overspeed

*Volt adjuster and frequency adjuster.

*Emergency stop

*Fail to start

Features:

*Protection: Automatic start/stop, load transfer and alarming of generator;

*4 digital inputs and 3 analogue inputs.

*6 outputs(4 configurable on magnetic pick-up, 6 configurable on Canbus version).

*3 phase generator and mains voltage monitoring.

*remote start on or off load.

*advanced metering capability.

*test button.

*protected solid state outputs.

*transfer between mains and generator power.

*user-friendly set-up and button layout.

*multiple engine parameters are monitored simultaneously.

*module can be configured to suit individual applications.

*IP 65 rating offers advanced resistance to water ingress when gasket is fitted.

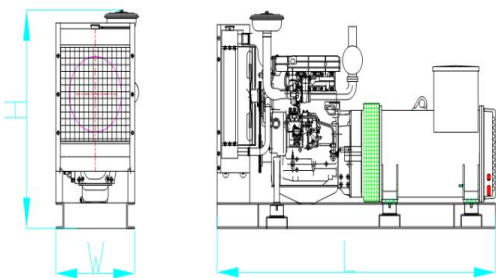
Soundproof Enclosure Specification:

silent generator is designed by professional acoustic engineers based on 11 years experience, Now we can make the noise of the generator less than 60~65dB(A) at 7m,

- ★ multi-way air intake and exhaust guarantee the power performance of the generator.
 - ★ large-scale impedance combined type silencer effectively reduce noise of the generator.
 - ★ internal high performance rubber damper and flexible materials reduce vibration.
 - ★ 10h Base mounted fuel tank
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- ★ Cold steel materials of the canopy.
 - ★ Best powder paint.
 - ★ Zinc plated and Corrosion resistance.
 - ★ Elegant appearance and reliable quality.
 - ★ Stainless steel locks and hinges.
 - ★ Access to all weather conditions.
 - ★ Fireproof, waterproof and dustproof.
 - ★ High quality soundproof materials could efficiently reduce noise.
 - ★ Big base fuel tank in the frame guarantee sufficient diesel supply.
 - ★ 180° revolvable and disassemble door for easy maintenance.
 - ★ Concave lockable access door for easy operation and indefectible.
 - ★ Lights inside of the canopy for maintenance.
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- ★ Transparent viewing window make the control panel clear at a glance.
 - ★ Emergency stop button mounted on the canopy exterior for urgency.
 - ★ Cooling fluid injection hole is kept on the ceiling crust.
 - ★ Pipe of lube oil and cooling fluid is mounted on the bottom of generator for easy let.
 - ★ Fuel fill and battery can easy be accessed by lockable door.
 - ★ Cooling fan and battery are fully guarded.
 - ★ Heat insulation of exhaust smoke system inside the canopy.
 - ★ Forkman slot is for choice.
 - ★ Lifting ear is mounted in the base frame.

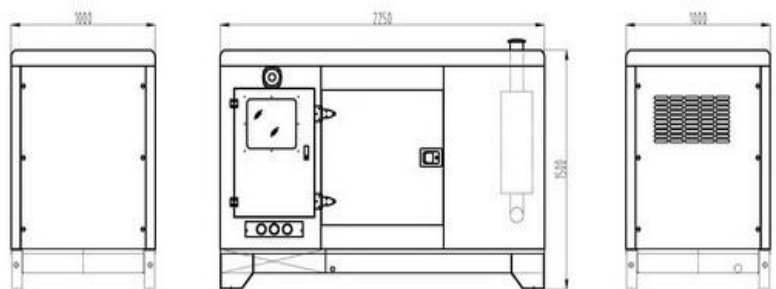
Weight and Dimensions

1. Open Version:



Open Type (Standard Configuration)
Overall Size:
Weight:

2. Soundproof Version:



Soundproof Type
Overall size:
Weight:

2. Standard and Criterion

All technical guideline of Generating sets are according with the National standard of ISO3046, ISO8528, IEC34, BS800, BS2613, BS4999, BS5000, BS5514, VDE0530, VDE0875, DIN6271, DIN6280 GB/T2820-97, GB755-81, GB1105-87 and SAEJB49.

Factory test

The genset have been got through 4 hours load test for running 0%, 25%, 50%, 75%, 100%, and 110%, all protective devices and control function are simulated and checked before dispatch. The test certificate shall be provided.