

## KDE23SS3 Diesel Generator Set

Powered by **KNOXGEN**

### General Features

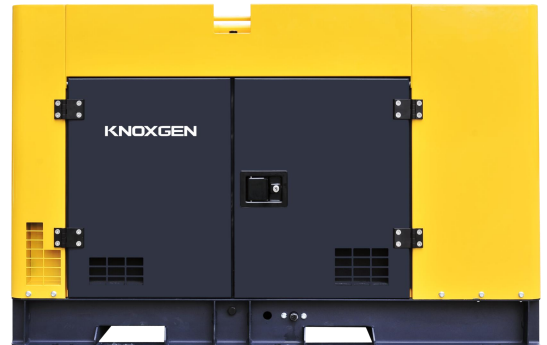
- KNOXGEN Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The generator set accepts rated load in one step.
- The 50Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2、EU3 nonroad emissions regulations.(≤560KW)
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

PHOTO FOR REFERENCE ONLY



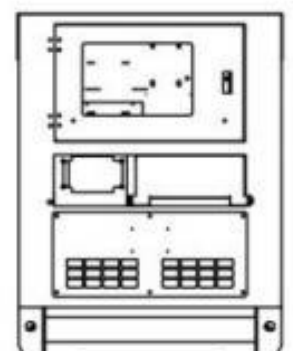
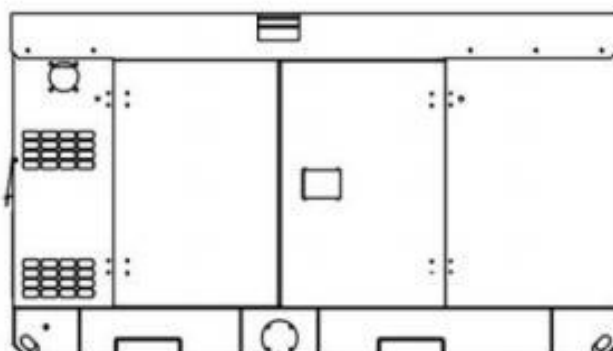
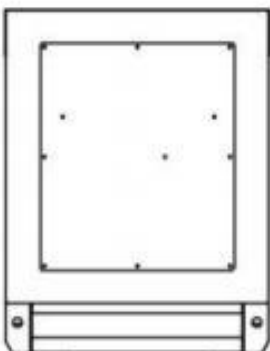
### Technical Data

Output Frequency	50 Hz
Rated Speed	1500RPM
Prime Power	21KVA/17KW
Standby Power	23KVA/18KW
Rated Voltage	400/230V



### Dimension and Weight

Genset Type	Soundproof
Length(L) (mm)	1840
Width(W) (mm)	805
Height(H) (mm)	1050
Gross Weight (kg)	680



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## Engine Specifications

Engine Brand	KNOXGEN
Engine Model	KD490D
Cylinder No.& Configuration	4 cylinder Diesel L type
Working Mode	Naturally Aspirated
Bore x Stroke	90x100mm
Displacement	2.54L
Compression Ratio	18
Rated Power	21kW
Rated Speed	1500
Lubrication System	Splash Lubrication
Lube Oil	Conforms above CD class or SAE10W-30, 15W-40
Lube Oil Capacity	8L
Battery Capacity	6-QW-45(380)*1
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)
Fuel Consumption 25% load	1.87L/H
Fuel Consumption 50% load	2.98L/H
Fuel Consumption 75% load	4.05L/H
Fuel Consumption 100% load	5.45L/H

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## Alternator Specification

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- Optional for small gensets
- Single bearing alternator
- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- Double bearing (optional)
- Anti-Condensation Heater (optional)
- IP41 Protection (optional)

## Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

## Packing

- Engine manual
- Alternator manual
- Gensets operation and maintenance manual
- Tool kit

## Baseframe

- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet valve
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

## Canopy

- Weatherproof & sound-attenuated canopy
- Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer

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### Control System



### Key Features

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- Have a RS485 port, can be used for communicate to PC
- All parameters can be set from the front panel, or be set by PC used SG72
- Security password-protected programming levels
- All parameters use digital modulation, with higher reliability and stability
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Power supply range is wide, accommodating to different starting battery voltage environment
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation

### Protection

- High engine temperature
- Low oil pressure
- Over speed
- Under speed
- Loss of speed signal
- Generator over frequency
- Generator under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxiliary inputs

### Precision measure and display of controller

- Mains voltage
- Mains frequency
- Mains current
- Generator voltage
- Generator current
- Generator frequency
- Generator active power (kW)
- Generator inactive power (kW)
- Generator apparent power (kVA)
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Generator fuel level
- Start battery voltage

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## Optional

### Engine

- Water Jacket Preheater
- Water Separator
- Oil Pump
- Oil Preheater
- Battery Charger

### Fuel System

- Daily Fuel Tank
- External Fuel Tank
- Auto Fuel Filling System
- Fuel Level Sensor

### Control System

- Auto Remote Control Panel
- AMF Function Control Panel
- Auto Paralleling Control Panel
- Auto Transfer Switch (ATS)
- ABB breaker

### Alternator

- Anti Condensation Heater
- Permanent Magnet Generator
- Winding Temp Sensor

### Enclosure

- Rainproof Type
- Soundproof Rental Type
- Mobile Type

### Available Voltages

- 440/254V
- 415/240V
- 380/220V

## Reference Standards

Generator Set: ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

Engine: ISO 3046, BS 5514, DIN 6271

Alternator: BS EN 60034, IEC34, BS5000, NEMA MG1-32, VDE 0530, CSA C22.2-100, AS1359

## Warranty

KNOXGEN Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: A. 15 months, counted on the day KNOXGEN sold to the first buyer; B. One year after installation; C. 1000 running hours (accumulated); subject to the earlier one.

Service and spare parts are available from KNOXGEN Power or distributors in your location.