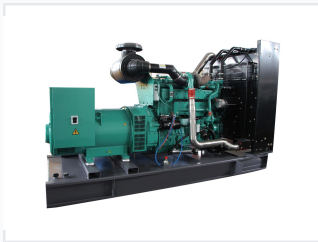


## 22kVA 18kW Diesel Generator Set, 50Hz

This compact diesel generator set delivers 22kVA (18kW) of reliable power at 50Hz. Designed for a variety of applications, it features a robust diesel engine coupled with a high-efficiency alternator.



### ADDITIONAL IMAGES



### Overview

#### Reliable 22kVA Diesel Power Solution

This 22kVA (18kW) diesel generator set is engineered for high torque and easy maintenance, making it an ideal choice for both prime and standby power applications. Featuring a corrosion-resistant cabinet and a high-performance cooling system, it ensures stable operation in diverse environments. The unit is designed for easy transportation via crane or forklift and includes an integrated fuel tank providing over 8 hours of continuous operation.

### Core Performance

#### Rated Performance

**22 kVA**

Standby Power

**18 kW**

Standby Power

**20 kVA**

Prime Power

**16 kW**

Prime Power

### Engine Specifications

#### Engine Configuration

Feature	Specification
Cylinders	4 / In Line
Cycle	4 Stroke
Displacement	3.9 L
Bore / Stroke	102 mm / 120 mm
Compression Ratio	18.0:1
Cooling Method	Water Cooled
Governing Type	Mechanical
Gross Engine Power (Prime)	24 kW

## Alternator & Electrical

### Alternator Details

Parameter	Value
Voltage Regulation	± 1.0%
Insulation Class	H
Protection Rating	IP23
Excitation System	Self-excited, SHUNT
Winding Material	100% Copper
Winding Pitch	2/3
THF	<2%
TIF	<50

## Physical Design



Detailed workmanship ensuring secure electrical grounding and connectivity.

### Physical Attributes

- High-quality sheet metal cabinet
- Corrosion-resistant and scratch-resistant finish
- Waterproof and dust-proof canopy sealing
- Integrated crane and forklift points for easy transport
- Base-mounted vibration isolation
- e8four integrated fuel tank

## Operational Environment

### Operating Conditions

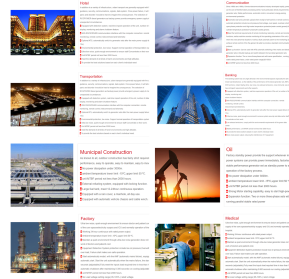
Condition	Limit
Ambient Temperature (Max)	50 °C
Ambient Temperature (Min)	-15 °C
Max Altitude (No Power Dissipation)	3000m
Noise Level (Soundproof)	68-70 dBA @ 7m

## Control & Safety

### Control Features

AMF (Auto Mains Failure), Remote Monitoring, Low Oil Pressure Protection, Overvoltage Protection, Overspeed Protection, Overload Protection, Short-circuit Protection, High Temperature Shutdown

## Applications



Versatile power solution suitable for healthcare, banking, and industrial infrastructure.

### Recommended Applications

Hotels • Medical Facilities • Data Centers • Banking • Municipal Construction • Oil & Gas Fields • Telecommunications • Manufacturing

## Quality & Compliance



Compliance with international ISO, CE, and environmental standards.

### Standards & Compliance

- ISO9001:2008 Quality Management
- ISO14001:2004 Environmental Management
- OHSAS18001:2007 Occupational Health & Safety
- CE Machinery Safety Directive (98/37/EC)
- CE Low Voltage Directive (73/23/EEC)
- CE Electromagnetic Compatibility (89/336/EEC)
- Outdoor Noise Standards (2005/88/EC)

### Rigorous Load Testing

Every unit undergoes a comprehensive 1-hour test before delivery. Testing includes stepped load levels at 25%, 50%, 75%, 100%, and 110% to verify soundproof levels, frequency and voltage control, fluid management, and all safety protection functions.