

500kW Silent Diesel Generator Set

This 500kW diesel generator set ensures reliable backup power for diverse applications. Its sound-attenuated enclosure minimizes noise, making it suitable for noise-sensitive environments.



ADDITIONAL IMAGES



Overview

High-Performance 500kW Silent Power Solution

This 500kW silent diesel generator set is engineered for reliable standby and continuous power in noise-sensitive environments. It features a robust six-cylinder turbocharged engine and a brushless alternator with automatic voltage regulation for stable output. Housed in a sound-attenuated enclosure, the unit includes a self-starting control panel with comprehensive fault protection and monitoring for industrial and commercial applications.

Performance Metrics

Rated Power Output

500 kW

Rated Power

625 kVA

Rated Capacity

575 kW

Standby Power

Technical Specifications

Electrical Parameters

Parameter	Value
Rated Voltage	400/230V
Rated Current	900A
Rated Frequency	50Hz
Power Factor	0.8 (Lagging)
Phase Connection	Three-phase four-wire

Engine Details

Engine Configuration

- Type: Four strokes, waste gas turbine boost, direct injection
- Cylinders: 6 cylinders, Inline type
- Bore x Stroke: 159mm x 159mm
- Displacement: 19L
- Cooling: Forced closed-cycle water cooling with fan
- Speed Regulation: Electronic (E-Speed)
- Starting System: DC24V Electric start

Alternator & Protection

Alternator & Protection

Feature	Specification
Type	Brushless with AVR
Insulation Class	H Degree
Protection Rating	IP22
Rotating Speed	1500 r/min

Control System

Control & Monitoring Functions

- Automatic and manual start (15-50s adjustable)
- Automatic input and switching functionality
- Digital display for voltage, frequency, and current
- Monitoring for oil pressure, oil temperature, and coolant temperature
- Engine over-speed alarm and shutdown
- Low oil pressure and high water temperature protection
- Voltage and frequency out-of-range alarms
- Short-circuit and IDMT over-current protection

Physical Characteristics

Dimensions & Weight

Attribute	Value
Silent Box Size	4700 x 2100 x 2400 mm
Total Weight	6850 KG
Noise Level (at 7m)	d75dB

Efficiency

Fuel Consumption (Full Load)	206 g/kw.h
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Accessories

Included Accessories	Base Oil Tank, Wave Pipe, Curved Pipe, Muffler, Accumulator & Cables, Shock-absorbing Spacer, Toolbox, Technical Documentation
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