

600kW Silent Diesel Generator Set

The 600kW silent diesel generator set delivers reliable standby power for various applications. Its sound-attenuated enclosure minimizes noise levels, making it suitable for noise-sensitive environments.



ADDITIONAL IMAGES



Overview

High-Performance 600kW Silent Power Solution

This 600kW silent diesel generator set is engineered for reliable standby and prime power in noise-sensitive environments. Featuring a heavy-duty 12-cylinder engine and a brushless alternator with automatic voltage regulation, it ensures stable electricity delivery with a rapid 3-second frequency stabilization time. The unit is housed in a sound-attenuated enclosure that limits noise to d75 dB at 7 meters, making it ideal for industrial, commercial, and emergency backup applications.

Performance Metrics

Core Performance

600 kW

Rated Power

750 kVA

Rated Capacity

75 dB

Noise Level (7m)

Generator Set Specifications

Frequency Stability

Parameter	Value
Steady Frequency Regulating Rate	d3%
Instantaneous Frequency Regulating Rate	d±5%
Frequency Waving Rate	d0.25%
Frequency Steady Time	3 sec

Rated Current	1080 A
Rated Voltage	400/230V

Engine Technical Data

Cooling System

Water Cooling • Forced Closed Cycle • Integrated Fan

Engine Model	KTA38-G2
Cylinder Configuration	12 Cylinders, V-Type
Displacement	38 L
Full Load Fuel Consumption	206 g/kw.h

Alternator Details

Alternator Type	Brushless with AVR (Automatic Voltage Regulation)
Insulation & Protection	Class H Insulation, IP22 Protection

Control System

Control & Monitoring

- Automatic and Manual Start (15-50s adjustable)
- Automatic Transfer Switch (ATS) functionality
- Digital display for 3-phase voltage and current
- Monitoring for oil pressure, temperature, and coolant
- Over-speed and low oil pressure alarm/shutdown
- High water temperature protection
- Short-circuit and IDMT over-current protection

Physical Dimensions

Dimensions (L*W*H)	6058 x 2438 x 2896 mm
Total Weight	9850 KG

Standard Accessories

Included in Package	Base Oil Tank, Muffler, Accumulator & Cables, Shock-Absorbing Spacers, Toolbox, Technical Documentation
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