100kW Trailer Mounted Soundproof Diesel Generator Set

This 100kW diesel generator set is mounted on a trailer for easy transport and deployment. Its soundproof enclosure minimizes noise, making it suitable for use in noise-sensitive environments.

ADDITIONAL IMAGES

Overview

High-Performance Mobile Power Solution

This 100kW trailer-mounted diesel generator set is engineered for versatile and reliable power delivery in demanding environments. Featuring a soundproof enclosure made from galvanized metal sheets, it provides quiet operation suitable for noise-sensitive sites like events and hospitals. Its mobile trailer design ensures rapid deployment for construction, emergency backup, and industrial applications.

Performance Metrics

Core Performance

100 kW	125 kVA	50 Hz	1500 RPM
Rated Power	Rated Capacity	Frequency	Engine Speed

Engine Specifications

Engine Technical Data

Feature	Specification
Engine Type	4-cycle, in-line, 6-cylinder
Aspiration	Turbocharged & Aftercooled
Governor Type	Electronic
Displacement	5.9 L
Bore x Stroke	102 x 120 mm
Compression Ratio	17.3:1
Fuel Consumption (100% Load)	27 L/H
Oil Capacity	12.3 - 14.2 L
Coolant Capacity	10 L

Alternator & Electrical

Alternator & Electrical System

Parameter	Value
Phase/Wiring	3 Phase, 4 Wires
Power Factor	0.8 (Cos Phi)
Insulation Class	H
Protection Rating	IP23
Voltage Regulation	±0.5%
Efficiency	90.3%
Excitation	Brushless, 100% Copper Wiring
AVR Model	SX460

Enclosure & Mobility

Detailed view of the integrated drainage system for fuel, coolant, and oil, alongside the heavy-duty enclosure components.

Enclosure & Mobility

- Trailer-mounted for easy mobility (Speed < 15KM/H)
- Soundproof canopy made of 1.8mm galvanized steel plates
- Residential muffler and exhaust bellows for noise reduction
- Anti-vibration mountings
- High-capacity 8-hour (220L) base fuel tank
- Integrated drainage system for fuel, coolant, and engine oil

Control System

Control & Safety

- LCD control panel with AMF (Auto Mains Failure) function
- Selectable controller systems (Deepsea, Smartgen, or ComAp)
- CHINT circuit breaker included
- Equipped with heavy-duty batteries and chargers
- Optional Automatic Transfer Switch (ATS) available

Dimensions & Weight

Physical Specifications

Metric	Value
Length	2860 mm
Width	1080 mm
Height	1590 mm
Gross Weight	1700 kg

Compliance & Standards	
Compliance	ISO 8528-1, ISO 3046-1, MEP STAGE I, CE Certified, NEMA TIF < 50