

# 500 kVA Diesel Generator Set

This 500 kVA diesel generator set provides a reliable and consistent power supply. It is enclosed in a soundproof canopy, making it suitable for various applications, including industrial, commercial, and residential backup power.



## Overview

### High-Performance 500 kVA Diesel Generator

This industrial-grade diesel generator set is designed for reliable power generation in demanding environments, offering a prime power output of 500 kVA. It features a robust 4-stroke engine and a high-efficiency brushless alternator, ensuring stable performance for both emergency standby and continuous prime power applications. Available in both open and silent configurations, it provides versatile installation options to meet specific noise and space requirements.

## Power Performance

### Key Power Ratings

**500 kVA**

Prime Power

**550 kVA**

Standby Power

**400 kW**

Prime Power

**50 Hz**

Frequency

### Electrical Characteristics

Parameter	Value
Standard Voltage	400/230 V
Available Voltages	380/220 V, 415/240 V
Power Factor	0.8 Cos Phi
Rated Speed	1500 rpm
Phase	3-Phase

## Engine Specifications

### Engine Technical Data

Feature	Specification
Engine Type	4-stroke diesel, Direct Injection
Aspiration	Turbocharged
Cylinder Arrangement	6-L
Displacement	12.7 L
Bore x Stroke	130 x 160 mm
Compression Ratio	16.3:1
Governor Type	EMS
Cooling System	Water-cooled

### Fuel Consumption (PRP)

Load Level	Consumption
100% Load	99 L/H
75% Load	71 L/H
50% Load	47 L/H

## Alternator & Control

### Alternator Specifications

- Self-excited, brushless excitation
- Electronic AVR voltage regulator
- H class insulation
- IP23 enclosure protection
- 4-pole design
- Star-serie winding connections

### Control Module Functions

Digital Instrumentation, Auto/Manual Start, Acoustic Alarm, Battery Charger, Earth Fault Protection, Emergency Stop, Overload Protection

## Physical Dimensions

### Configuration Comparison

Type	Dimensions (LxWxH) mm	Dry Weight	Fuel Tank
Open Set	3785 x 1165 x 2080	3700 kg	1000 L
Silent Set	4660 x 1550 x 2430	4855 kg	700 L

## Certifications

### Standards & Compliance

ISO 9001 • ISO 14001 • ISO 18001 • ISO 8528-1