

Technical Specification



Diesel
Generator Set
KD 250 B&M



Description

This Katana® Power Generation commercial generator set is a fully integrated power generation system, providing optimum performance, reliability, and versatility for stationary standby, prime power and continuous duty applications.

Features

Katana® heavy-duty engine - Rugged 4-cycle industrial diesel delivers reliable power, low emissions and fast response to load changes.

Alternator - Low reactance 2/3 pitch windings; low waveform distortion with non-linear loads, fault clearing short-circuits capability, and class H insulation.

Cooling system - The standard integrated kit model radiator system designed and tested for nominal ambient temperatures, simplifies facility design requirements for heat rejected.

Control system – Datakom electronic control is standard equipment and provides total genset system integration, including auto remote start/stop, alarm and status message display.

Canopy Types - Optionally it is possible to make it protective and soundproof against adverse climatic conditions

Warranty and service - Backed by a comprehensive warranty and worldwide aftersales support, 10 years of spare parts supplying.

Stand by Rating (ESP): It is the way that generators operate under variable load at certain time intervals. It can work as a backup power. It is not suitable to work under extreme load.

Prime Rating (PRP): Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

Genset Model	Engine Model	Prime rating	Stand by rating
KD 250 B&M	6M16G250/5	227 kVA	250 kVA

Generator Set Specifications

Governor regulation class	ISO 8528 G3
Voltage regulation, no load to full load	± 1%
Random voltage variation	± 1%
Frequency regulation	Isochronous
Random frequency variation	± 0.25%
EMS compatibility	In compliance with BS 800 and VDE levels G and N

Engine Specifications

Engine brand	Baudouin Engine
Aspiration Type	Turbocharged
Engine Rated Speed	1500 rpm
Bore	126 mm
Stroke	130 mm
Displacement	9.726 L
Cylinder block	6 cylinder
Oil Capacity low / High	19 / 22 L
Coolant capacity for engine / Radiator and pipes	22 / 20 L
Starting voltage	24 V
Fuel system	Direct injection
Fuel filter	Strata pore fuel filter
Air cleaner type	Heavy duty air cleaner
Compression ratio	17:1
Cycle	4 stroke
Cooling system	Liquid (water + 50% antifreeze)
Governor Type	Electronic
Fuel Consumption at 25% of generator set prime output	14.2 L/hr
Fuel Consumption at 50% of generator set prime output	25.8 L/hr
Fuel Consumption at 75% of generator set prime output	38,0 L/hr
Fuel Consumption at 100% of generator set prime output	50.9 L/hr
Fuel Consumption at 100% of generator set stand by output	56.4 L/hr

Alternator Specifications

Alternator brand	Megatron
Type	Brushless, revolving field
Frequency	50 Hz
Winding pitch	2/3 pitch
Number of bearing	Single bearing
Protection	IP23
Insulation system	Class H
Standard temperature rise	Standart 125°C ,Stand by 163°C
Exciter type	Self - excitation or other excitation by PMG
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower fan
AC waveform total harmonic distortion (THDV)	No load <1.5%. Non distorting balanced linear load <5%
Telephone influence factor (TIF)	<50% per NEMA MG1-22.43
Telephone harmonic factor (THF)	<2%

Generator Set Options

Engine

- Water jacket heater

Cooling

- Antifreeze -25°

Alternator

- H class insulation
 Exciter voltage regulator

Control panel

- Datakom
 3 pole main circuit breaker
 Motorised 4 pole circuit breaker

Canopy Types

- Optional super silent

Warranty

- Global warranty

