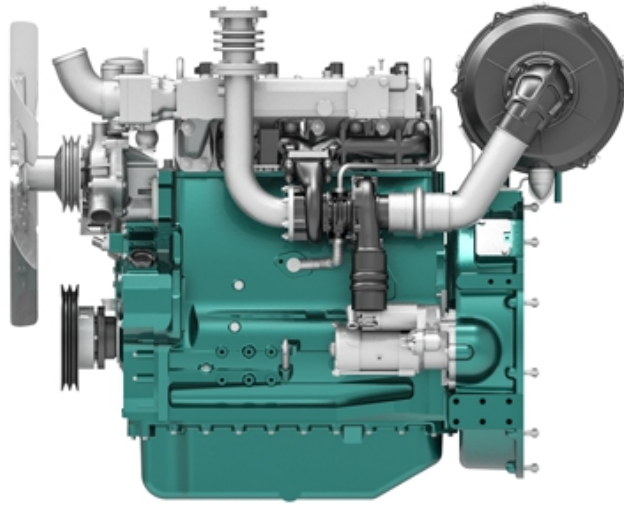


MODEL: HC-BD125-60

440V | 1800rpm | 60Hz



ESP Standby Power	125kVA	PRP Prime Power	112kVA
ENGINE	Baudouin	ALTERNATOR	STAMFORD
	4M10G100/6		UCI274C1

GENERAL FEATURES

Engine: Baudouin 4M10G100/6

Alternator: single bearing, IP23, insulation class H

40°C radiator, fans are driven by belt, with safety guard

Dry type air filter, fuel filter & oil filter

Vibration damper

Standard control panel

24V charging alternator

Exhaust bellows, elbows, flange & muffler

Lead-acid batteries, rack and cables

User manual

MODEL: HC-BD125-60**440V | 1800rpm | 60Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	150	100kW/125kVA	90kW/112kVA
460/266	60	3	0.8	157	100kW/125kVA	90kW/112kVA
440/254	60	3	0.8	164	100kW/125kVA	90kW/112kVA
416/240	60	3	0.8	173	100kW/125kVA	90kW/112kVA

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv ISO 8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

SALES PROMISES

HiChai Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: One year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from HiChai Power or distributors in your location.

MODEL: HC-BD125-60**440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 4M10G100/6
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Air intake system	Turbocharged
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Fuel system	Mechanical Pump
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Cylinder arrangement	4 in line
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Displacement	4.087L
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Bore and stroke	105 × 118 mm
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Compression ratio	17.5
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Rated speed	1800rpm
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Max. Standby power at rated speed	105kW
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Governor type	Electronic
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Exhaust System

Exhaust gas flow	27.9 m ³ /min
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Exhaust temperature	550°C
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Max back pressure	5kPa
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Air Intake System

Max intake restriction	6kPa
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Combustion air flow	9.14 m ³ /min
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Air flow required for radiator	220 m ³ /min
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Comprehensive Solutions For

POWER GENERATION

MODEL: HC-BD125-60**440V | 1800rpm | 60Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	207.0g/kWh	25.1L/h
Fuel consumption @ 75% (Prime Power) Load	205.2g/kWh	18.8L/h
Fuel consumption @ 50% (Prime Power) Load	212.7g/kWh	13.4L/h

Oil System

Total oil capacity	15L
Oil sump capacity	12-14L
Oil fuel consumption ratio based on engine fuel consumption data	$\leq 0.2\%$

Cooling System

Coolant capacity	23L
Max water temperature	105°C

MODEL: HC-BD125-60**440V | 1800rpm | 60Hz**

ALTERNATOR SPECIFICATION

Industrial alternators meet the requirements of the relevant parts of the BS5000, VDE 0530, NEMA MG1-22, IEC34, CSA 22.2-100 and AS1359.

Alternator Data

Number of Phase	3
Connecting Type	3 Phase and 4 Wires, Y type connecting
Number of Bearing	1
Power Factor	0.8
Protection Class	IP23
Altitude	≤1000m
Exciter Type	Brushless exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	< 50
THF	< 2%
Alternator Capacity	117.5kVA
Alternator Efficiency	90.6%

MODEL: HC-BD125-60**440V | 1800rpm | 60Hz****GENERATING SET DATA**

Related range of voltage setting	$\geq \pm 5\%$
Steady-state voltage deviation	$\leq \pm 1\%$
Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
Transient voltage deviation (sudden power increase)	$\leq -20\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
Voltage recovery time (sudden power increase)	$\leq 6S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 1.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
Transient frequency deviation (sudden power increase)	$\leq -10\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
Frequency recovery time (sudden power increase)	$\leq 5S$

STANDARD FEATURES

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
Base fuel tank		

MODEL: HC-BD125-60

440V | 1800rpm | 60Hz

OPTIONS

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 2100×700×1300 mm

Weight: 1240 kg



Soundproof Type

Overall Dimensions: 2810×1140×1830 mm

Weight: 1740 kg

Specifications are subject to change without notice.