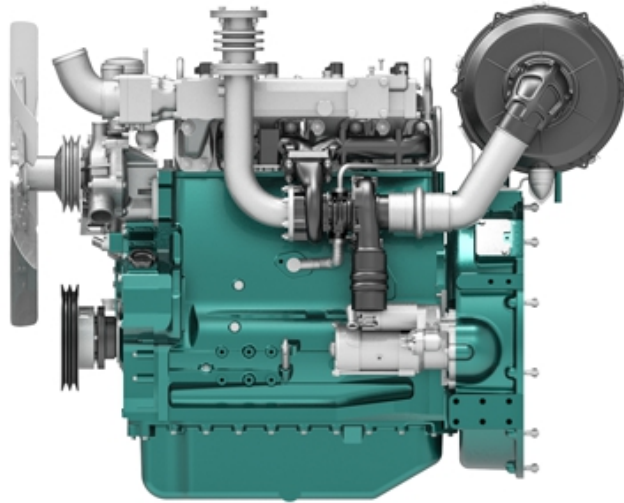


**MODEL: HC-BD100-60**

**440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>100kVA</b>	<b>PRP</b> Prime Power	<b>93.8kVA</b>
<b>ENGINE</b>	<b>Baudouin</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>4M10G83/6</b>		<b>UCI224G1</b>

## GENERAL FEATURES

Engine: Baudouin 4M10G83/6	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

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## GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	120	80kW/100kVA	75kW/93.8kVA
460/266	60	3	0.8	126	80kW/100kVA	75kW/93.8kVA
440/254	60	3	0.8	131	80kW/100kVA	75kW/93.8kVA
416/240	60	3	0.8	139	80kW/100kVA	75kW/93.8kVA

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-BD100-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 4M10G83/6
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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	95kW
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Governor type	Electronic
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**Exhaust System**

Exhaust gas flow	19.4 m <sup>3</sup> /min
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Exhaust temperature	570°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	6.33 m <sup>3</sup> /min
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Air flow required for radiator	220 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**

**MODEL: HC-BD100-60**

**440V | 1800rpm | 60Hz**

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	212.8g/kWh	21.1L/h
Fuel consumption @ 75% (Prime Power) Load	211.6g/kWh	15.8L/h
Fuel consumption @ 50% (Prime Power) Load	220.1g/kWh	11.1L/h

**Oil System**

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

**Cooling System**

Coolant capacity	17L
Max water temperature	105°C

**MODEL: HC-BD100-60****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	97.5kVA
Alternator Efficiency	90.8%

**MODEL: HC-BD100-60**

**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-BD100-60**

**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: 1890×700×1300 mm

Weight: 1140 kg



**Soundproof Type**

Overall Dimensions: 2810×1140×1830 mm

Weight: 1640 kg

*Specifications are subject to change without notice.*