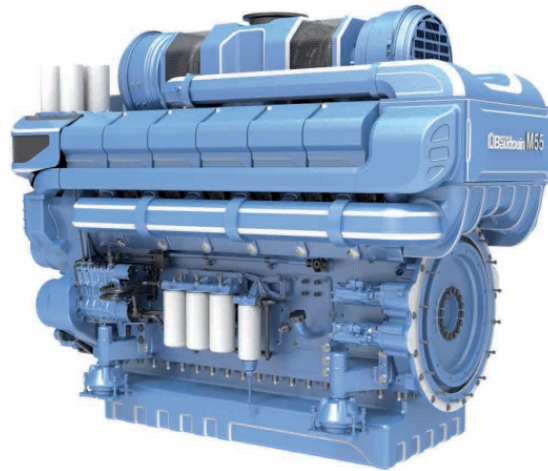


**MODEL: HC-BD3000-60**

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



<b>ESP</b> Standby Power	<b>3080kVA</b>	<b>PRP</b> Prime Power	<b>2800kVA</b>
<b>ENGINE</b>	<b>Baudouin</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>12M55G2500/6</b>		<b>LSA 53.2 M9</b>

### GENERAL FEATURES

Engine: Baudouin 12M55G2500/6

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-BD3000-60**

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

## GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	3705	2464kW/3080kVA	2240kW/2800kVA
460/266	60	3	0.8	3866	2464kW/3080kVA	2240kW/2800kVA
440/254	60	3	0.8	4042	2464kW/3080kVA	2240kW/2800kVA
416/240	60	3	0.8	4275	2464kW/3080kVA	2240kW/2800kVA

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-BD3000-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 12M55G2500/6
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Air intake system	Turbocharged and Aftercooled
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Fuel system	High Pressure Common Rail
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Cylinder arrangement	12 in V
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Displacement	65.65L
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Bore and stroke	180 × 215 mm
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Compression ratio	16.5
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Rated speed	1800rpm
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Max. Standby power at rated speed	2725kW
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Governor type	ECU
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**Exhaust System**

Exhaust gas flow	636 m <sup>3</sup> /min
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Exhaust temperature	550°C
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Max back pressure	15kPa
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**Air Intake System**

Max intake restriction	7kPa
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Combustion air flow	193 m <sup>3</sup> /min
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Air flow required for radiator	2820 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**

**MODEL: HC-BD3000-60**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	200.2g/kWh	562.6L/h
Fuel consumption @ 75% (Prime Power) Load	199.6g/kWh	425.2L/h
Fuel consumption @ 50% (Prime Power) Load	207g/kWh	299.7L/h

**Oil System**

Total oil capacity	560L
Oil sump capacity	380-480L
Oil consumption	≤ 0.4g/kW·h

**Cooling System**

Coolant capacity	576L
Max water temperature	103°C

**MODEL: HC-BD3000-60****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	3300kVA
Alternator Efficiency	96.4%

**MODEL: HC-BD3000-60**

**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)	$\leq +20\%$
Transient voltage deviation (sudden power increase)	$\leq -15\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
Voltage recovery time (sudden power increase)	$\leq 4S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 0.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
Transient frequency deviation (sudden power increase)	$\leq -7\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
Frequency recovery time (sudden power increase)	$\leq 3S$

## STANDARD FEATURES

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

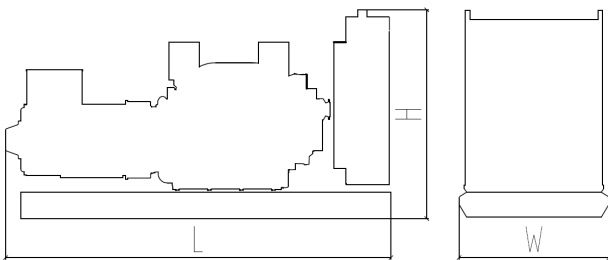
**MODEL: HC-BD3000-60**

**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: 6350×2320×2900 mm

Weight: 22000kg kg

*Specifications are subject to change without notice.*