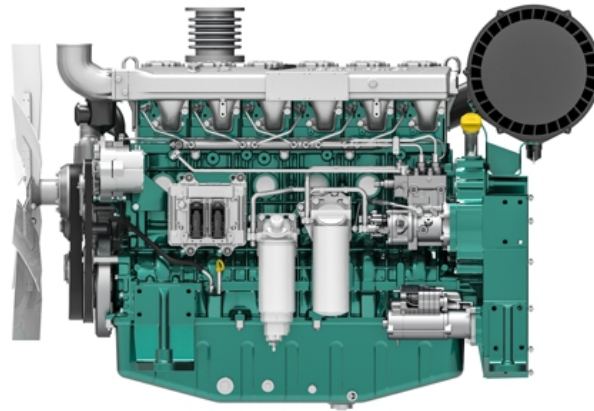


**MODEL: HC-BD415-60**

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



<b>ESP</b> Standby Power	<b>415kVA</b>	<b>PRP</b> Prime Power	<b>380kVA</b>
<b>ENGINE</b>	<b>Baudouin</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>6M21G330/6</b>		<b>S4L1D-E41</b>

## GENERAL FEATURES

Engine: Baudouin 6M21G330/6

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-BD415-60**

**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	499	332kW/415kVA	304kW/380kVA
460/266	60	3	0.8	521	332kW/415kVA	304kW/380kVA
440/254	60	3	0.8	545	332kW/415kVA	304kW/380kVA
416/240	60	3	0.8	576	332kW/415kVA	304kW/380kVA

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-BD415-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 6M21G330/6
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Air intake system	Turbocharged and Aftercooled
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Fuel system	Mechanical Pump
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Cylinder arrangement	6 in line
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Displacement	12.54L
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Bore and stroke	127 × 165 mm
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Compression ratio	16
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Rated speed	1800rpm
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Max. Standby power at rated speed	385kW
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Governor type	Electronic
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**Exhaust System**

Exhaust gas flow	80 m <sup>3</sup> /min
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Exhaust temperature	580°C
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Max back pressure	12kPa
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**Air Intake System**

Max intake restriction	7kPa
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Combustion air flow	26.1 m <sup>3</sup> /min
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Air flow required for radiator	585 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**

**MODEL: HC-BD415-60**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	197.6g/kWh	82.0L/h
Fuel consumption @ 75% (Prime Power) Load	197.1g/kWh	63.0L/h
Fuel consumption @ 50% (Prime Power) Load	203.5g/kWh	45.7L/h

**Oil System**

Total oil capacity	32L
Oil sump capacity	27-30L
Oil fuel consumption ratio based on engine fuel consumption data	≤ 0.2%

**Cooling System**

Coolant capacity	45L
Max water temperature	105°C

**MODEL: HC-BD415-60****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	435kVA
Alternator Efficiency	93.3%

**MODEL: HC-BD415-60**

**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

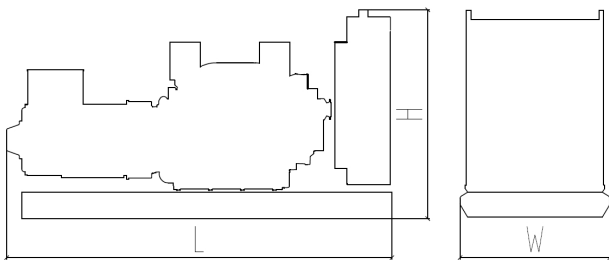
**MODEL: HC-BD415-60**

**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		

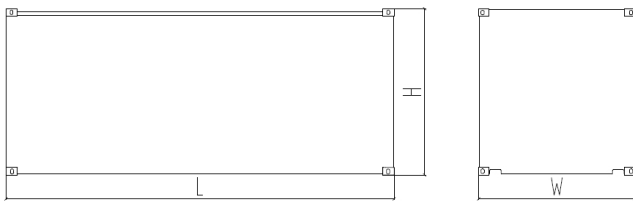
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 2950×1110×1730 mm

Weight: 2900 kg



**Soundproof Type**

Overall Dimensions: 4230×1460×2150 mm

Weight: 4250 kg

*Specifications are subject to change without notice.*