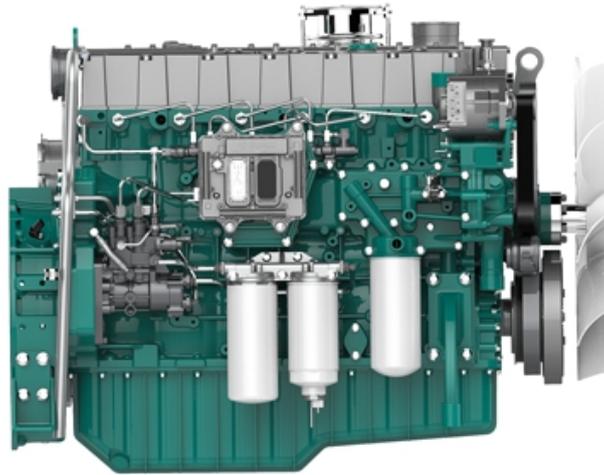


MODEL: HC-BD220-60

440V | 1800rpm | 60Hz



ESP Standby Power	220kVA	PRP Prime Power	200kVA
ENGINE	Baudouin	ALTERNATOR	STAMFORD
	6M11G176/6		UCI274G1

GENERAL FEATURES

Engine: Baudouin 6M11G176/6	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-BD220-60**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	265	176kW/220kVA	160kW/200kVA
460/266	60	3	0.8	276	176kW/220kVA	160kW/200kVA
440/254	60	3	0.8	289	176kW/220kVA	160kW/200kVA
416/240	60	3	0.8	305	176kW/220kVA	160kW/200kVA

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.

Comprehensive Solutions For

POWER GENERATION

MODEL: HC-BD220-60**440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 6M11G176/6
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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	6.75L
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Bore and stroke	105 × 130 mm
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Compression ratio	18
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Rated speed	1800rpm
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Max. Standby power at rated speed	200kW
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Governor type	Electronic
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Exhaust System

Exhaust gas flow	34.5 m ³ /min
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Exhaust temperature	550°C
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Max back pressure	6kPa
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Air Intake System

Max intake restriction	6kPa
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Combustion air flow	12.7 m ³ /min
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Air flow required for radiator	358 m ³ /min
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Comprehensive Solutions For

POWER GENERATION

MODEL: HC-BD220-60

440V | 1800rpm | 60Hz

Fuel System

Fuel consumption @ 100% (Prime Power) Load	202.3g/kWh	42.4L/h
Fuel consumption @ 75% (Prime Power) Load	202g/kWh	32.1L/h
Fuel consumption @ 50% (Prime Power) Load	208.2g/kWh	22.6L/h

Oil System

Total oil capacity	19L
Oil sump capacity	15-17L
Oil fuel consumption ratio based on engine fuel consumption data	≤ 0.2%

Cooling System

Coolant capacity	20L
Max water temperature	105°C

MODEL: HC-BD220-60**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	218.5kVA
Alternator Efficiency	92.4%

MODEL: HC-BD220-60

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		

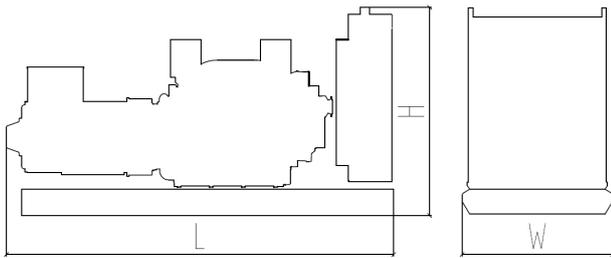
MODEL: HC-BD220-60

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OPTIONS

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

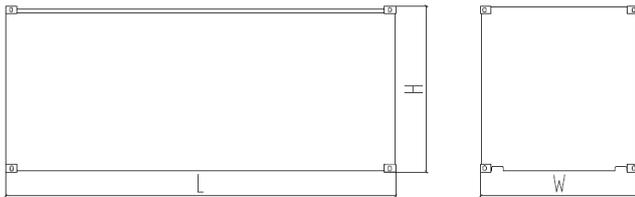
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 2550×830×1410 mm

Weight: 1700 kg



Soundproof Type

Overall Dimensions: 3230×1170×1800 mm

Weight: 2400 kg

Specifications are subject to change without notice.