

MODEL: HC-BD2500-60

440V | 1800rpm | 60Hz



ESP Standby Power	2500kVA	PRP Prime Power	2250kVA
ENGINE	Baudouin	ALTERNATOR	STAMFORD
	20M33G2000/6		PI734F1

GENERAL FEATURES

Engine: Baudouin 20M33G2000/6	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	3007	2000kW/2500kVA	1800kW/2250kVA
460/266	60	3	0.8	3138	2000kW/2500kVA	1800kW/2250kVA
440/254	60	3	0.8	3280	2000kW/2500kVA	1800kW/2250kVA
416/240	60	3	0.8	3470	2000kW/2500kVA	1800kW/2250kVA

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.

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ENGINE SPECIFICATION

Manufacturer / Model	Baudouin 20M33G2000/6
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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	20 in V
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Displacement	65.4L
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Bore and stroke	150 × 185 mm
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Compression ratio	15
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Rated speed	1800rpm
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Max. Standby power at rated speed	2230kW
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Governor type	ECU
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Exhaust System

Exhaust gas flow	557.3 m ³ /min
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Exhaust temperature	550°C
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Max back pressure	7.5kPa
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Air Intake System

Max intake restriction	5kPa
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Combustion air flow	172 m ³ /min
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Air flow required for radiator	3480 m ³ /min
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Comprehensive Solutions For

POWER GENERATION

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	204.3g/kWh	467.6L/h
Fuel consumption @ 75% (Prime Power) Load	201.3g/kWh	350.9L/h
Fuel consumption @ 50% (Prime Power) Load	209.5g/kWh	250.1L/h

Oil System

Total oil capacity	240L
Oil sump capacity	210-240L
Oil fuel consumption ratio based on engine fuel consumption data	≤ 0.3%

Cooling System

Coolant capacity	410L
Max water temperature	103°C

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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	2500kVA
Alternator Efficiency	95.9%

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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	

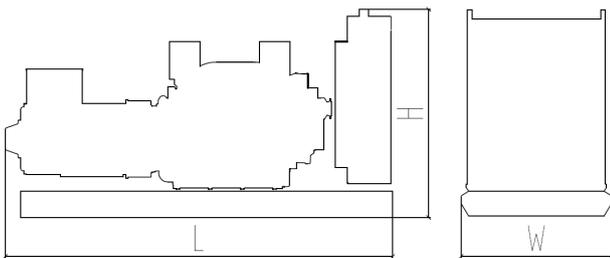
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OPTIONS

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: 6250×2320×2600 mm
Weight: 14900 kg

Specifications are subject to change without notice.