

**MODEL: HC-BD1500** **400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>1500 kVA</b>	<b>PRP</b> Prime Power	<b>1375 kVA</b>
<b>ENGINE</b>	<b>Baudouin</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>12M33G1500/5</b>		<b>S6L1D-H4</b>

### GENERAL FEATURES

Engine: Baudouin 12M33G1500/5	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)
440/254	50	3	0.8	1968	1200kW/1500kVA	1100kW/1375kVA
415/240	50	3	0.8	2087	1200kW/1500kVA	1100kW/1375kVA
400/230	50	3	0.8	2165	1200kW/1500kVA	1100kW/1375kVA
380/220	50	3	0.8	2279	1200kW/1500kVA	1100kW/1375kVA

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-BD1500****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 12M33G1500/5
Air intake system	Turbo, intercooling
Fuel system	Mechanical pump
Cylinder arrangement	12 cylinders in V
Displacement	39.2 L
Bore and stroke	150×185 mm
Compression ratio	15:1
Rated speed	1500rpm
Max. Standby power at rated speed	1320KW
Governor type	Electronic

**Exhaust System**

Exhaust gas flow	277 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	7.5 kPa

**Air Intake System**

Max intake restriction	6.5 kPa
Combustion air flow	97.3 m <sup>3</sup> /min
Air flow required for radiator	2100 m <sup>3</sup> /min

**MODEL: HC-BD1500****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	207.8 g/kWh	296.5 L/h
Fuel consumption @ 75% (Prime Power) Load	200.1 g/kWh	216.7 L/h
Fuel consumption @ 50% (Prime Power) Load	204.7 g/kWh	152.7 L/h

**Oil System**

Total oil capacity	160L
Oil consumption ratio based on fuel consumption data	≤ 0.3 %
Oil sump capacity	117-155L

**Cooling System**

Coolant capacity	303L
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	1400kVA
Alternator Efficiency	95.0%

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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**

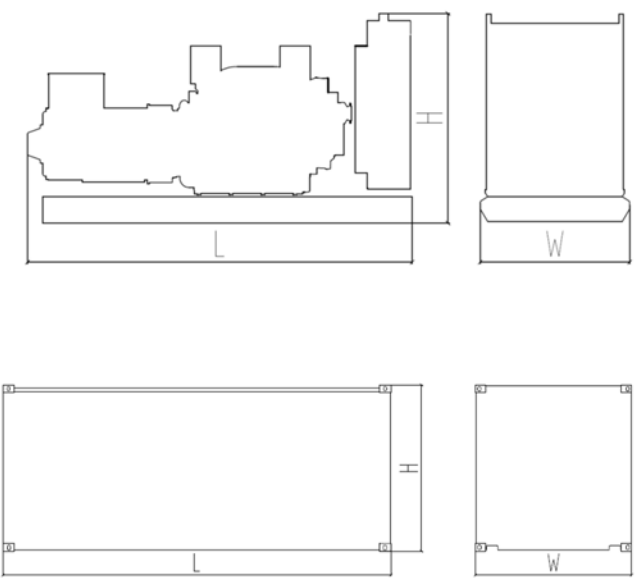
Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	

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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**



<b>Standard Configuration (open type)</b>
Overall Dimensions: 4750×2200×2430 mm
Weight: 9300 kg
<b>Soundproof Type (standard 20'ft HQ container)</b>
Overall Dimensions: 6058×2438×2896 mm
Weight: 14300 kg

*Specifications are subject to change without notice.*