

**MODEL: HC-BD3000**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>3000 kVA</b>	<b>PRP</b> Prime Power	<b>2750 kVA</b>
<b>ENGINE</b>	<b>Baudouin</b>	<b>ALTERNATOR</b>	<b>LEROY SOMER</b>
	<b>12M55G6D3/5</b>		<b>LSA 52.3 UL16</b>

**GENERAL FEATURES**

Engine: Baudouin 12M55G6D3/5	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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Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	3936	2400/3000	2200/2750
415/240	50	3	0.8	4173	2400/3000	2200/2750
400/230	50	3	0.8	4330	2400/3000	2200/2750
380/220	50	3	0.8	4558	2400/3000	2200/2750

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

Manufacturer / Model	Baudouin 12M55G6D3/5
Air intake system	Turbo, intercooling
Fuel system	High Pressure Common Rail
Cylinder arrangement	12 cylinders in V
Displacement	65.65 L
Bore and stroke	180×215 mm
Compression ratio	16.5:1
Rated speed	1500rpm
Max. Standby power at rated speed	2700KW
Governor type	ECU

**Exhaust System**

Exhaust gas flow	553 m <sup>3</sup> /min
Exhaust temperature	N/A
Max back pressure	15 kPa

**Air Intake System**

Max intake restriction	7 kPa
Combustion air flow	183 m <sup>3</sup> /min
Air flow required for radiator	2880 m <sup>3</sup> /min

**MODEL: HC-BD3000****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	191g/kWh	532 L/h
Fuel consumption @ 75% (Prime Power) Load	189g/kWh	398 L/h
Fuel consumption @ 50% (Prime Power) Load	193g/kWh	277 L/h

**Oil System**

Total oil capacity	560L
Oil consumption ratio based on fuel consumption data	$\leq 0.4\text{g/kW}\cdot\text{h}$
Oil sump capacity	380-480L

**Cooling System**

Coolant capacity	306L (Engine only)
Max water temperature	105°C

**MODEL: HC-BD3000****400V | 1500rpm | 50Hz****ALTERNATOR SPECIFICATION**

## 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	2750kVA
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	

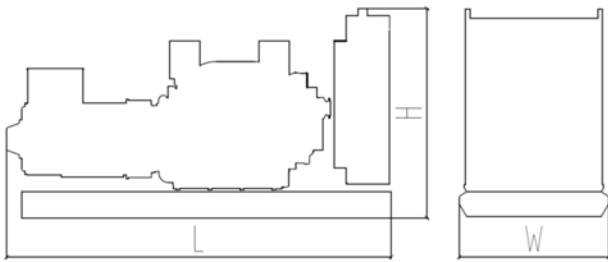
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**OPTIONS**

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: 6450×2500×2800 mm
Weight: 19200 kg

*Specifications are subject to change without notice.*