

MODEL: HC-BD1800 400V | 1500rpm | 50Hz



<b>ESP</b> Standby Power	1800 kVA	<b>PRP</b> Prime Power	1650 kVA
<b>ENGINE</b>	Baudouin	<b>ALTERNATOR</b>	STAMFORD
	16M33G4D3/5		PI734D1

### GENERAL FEATURES

Engine: Baudouin 16M33G4D3/5	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 (COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	2362	1440kW/1800kVA	1320kW/1650kVA
415/240	50	3	0.8	2504	1440kW/1800kVA	1320kW/1650kVA
400/230	50	3	0.8	2598	1440kW/1800kVA	1320kW/1650kVA
380/220	50	3	0.8	2735	1440kW/1800kVA	1320kW/1650kVA

**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 16M33G4D3/5
Air intake system	Turbo, intercooling
Fuel system	High Pressure Common Rail
Cylinder arrangement	16 cylinders in V
Displacement	52.3 L
Bore and stroke	150×185 mm
Compression ratio	15:1
Rated speed	1500rpm
Max. Standby power at rated speed	1680KW
Governor type	ECU

### Exhaust System

Exhaust gas flow	385.5 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	7.5 kPa

### Air Intake System

Max intake restriction	6.2 kPa
Combustion air flow	116 m <sup>3</sup> /min
Air flow required for radiator	2340 m <sup>3</sup> /min

**MODEL: HC-BD1800****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	200.4g/kWh	341L/h
Fuel consumption @ 75% (Prime Power) Load	195.6g/kWh	253L/h
Fuel consumption @ 50% (Prime Power) Load	201g/kWh	179L/h

**Oil System**

Total oil capacity	175L
Oil consumption ratio based on fuel consumption data	≤ 0.3 %
Oil sump capacity	114-171L

**Cooling System**

Coolant capacity	542L
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	1650kVA
Alternator Efficiency	96.2%

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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

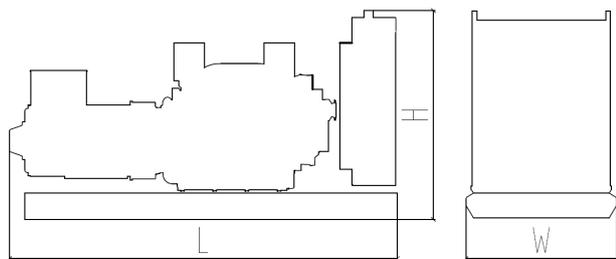
Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	

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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: 5220×2200×2550 mm
Weight: 12300 kg

*Specifications are subject to change without notice.*