

MODEL: HC-BD110 400V | 1500rpm | 50Hz



<b>ESP</b> Standby Power	110 kVA	<b>PRP</b> Prime Power	100 kVA
<b>ENGINE</b>	Baudouin	<b>ALTERNATOR</b>	LEROY SOMER
	4M10G110/5		TAL-A44-D

**GENERAL FEATURES**

Engine: Baudouin 4M10G110/5	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

MODEL: HC-BD110

400V | 1500rpm | 50Hz

## GENERATOR RATINGS

Voltage	Hz	Phase	PF (COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	144	88kW/110kVA	80kW/100kVA
415/240	50	3	0.8	153	88kW/110kVA	80kW/100kVA
400/230	50	3	0.8	159	88kW/110kVA	80kW/100kVA
380/220	50	3	0.8	167	88kW/110kVA	80kW/100kVA

**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-BD110** **400V | 1500rpm | 50Hz**

## ENGINE SPECIFICATION

Manufacturer / Model	Baudouin 4M10G110/5
Air intake system	Turbocharged
Fuel system	Mechanical pump
Cylinder arrangement	4 cylinders in line
Displacement	4.087 L
Bore and stroke	105×118 mm
Compression ratio	17.5 : 1
Rated speed	1500rpm
Max. Standby power at rated speed	100KW
Governor type	Electronic

## Exhaust System

Exhaust gas flow	21.6 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	5 kPa

## Air Intake System

Max intake restriction	6 kPa
Combustion air flow	6.9 m <sup>3</sup> /min
Air flow required for radiator	190 m <sup>3</sup> /min

MODEL: HC-BD110

400V | 1500rpm | 50Hz

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	202.4 g/kWh	22.1L/h
Fuel consumption @ 75% (Prime Power) Load	200 g/kWh	16.2L/h
Fuel consumption @ 50% (Prime Power) Load	208.1 g/kWh	11.6L/h

**Oil System**

Total oil capacity	15L
Oil consumption ratio based on fuel consumption data	≤ 0.2%
Oil sump capacity	12-14L

**Cooling System**

Coolant capacity	23L
Max water temperature	105°C

MODEL: HC-BD110

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	100kVA
Alternator Efficiency	89%

MODEL: HC-BD110

400V | 1500rpm | 50Hz

## 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		

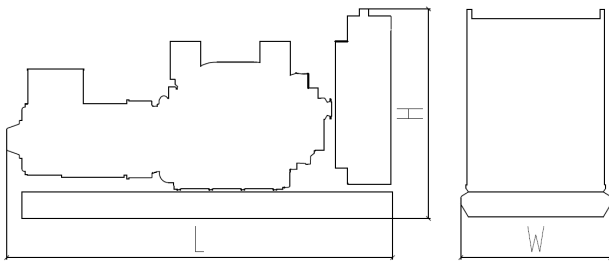
MODEL: HC-BD110

400V | 1500rpm | 50Hz

### OPTIONS

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

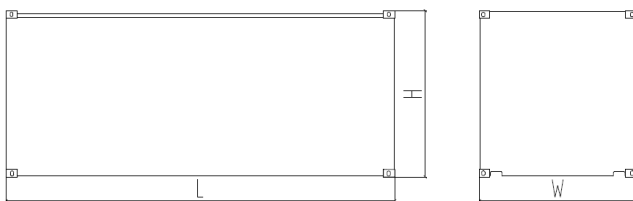
### DIMENSIONS & WEIGHT



Standard Configuration (open type with base fuel tank)

Overall Dimensions: 2100×700×1300 mm

Weight: 1140 kg



Soundproof Type

Overall Dimensions: 2810×1140×1830 mm

Weight: 1640 kg

*Specifications are subject to change without notice.*