

**MODEL: BF-BD110**

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



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

## 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

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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	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

Baifa 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: 15 months from the date BAIFA sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from Baifa Power or distributors in your location.

**MODEL: BF-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: BF-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

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## 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%

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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	MCCB

Base fuel tank

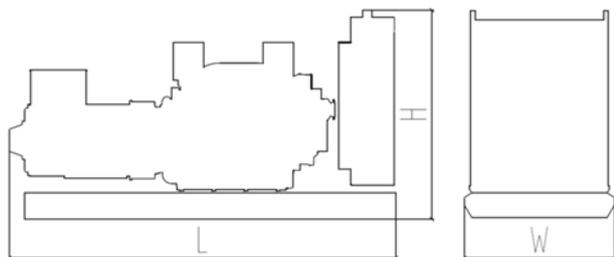
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**OPTIONS**

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

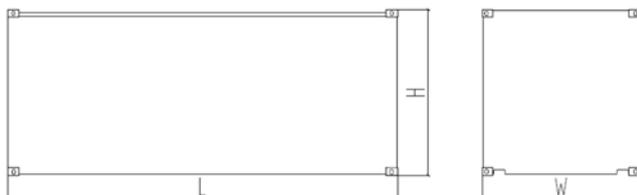
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type 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.*

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