

**MODEL: BF-BD125-60**

**440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>125kVA</b>	<b>PRP</b> Prime Power	<b>112kVA</b>
<b>ENGINE</b>	<b>Baudouin</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>4M10G100/6</b>		<b>UCI274C1</b>

**GENERAL FEATURES**

Engine: Baudouin 4M10G100/6	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)
480/277	60	3	0.8	150	100kW/125kVA	90kW/112kVA
460/266	60	3	0.8	157	100kW/125kVA	90kW/112kVA
440/254	60	3	0.8	164	100kW/125kVA	90kW/112kVA
416/240	60	3	0.8	173	100kW/125kVA	90kW/112kVA

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-BD125-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 4M10G100/6
Air intake system	Turbocharged
Fuel system	Mechanical Pump
Cylinder arrangement	4 in line
Displacement	4.087L
Bore and stroke	105 × 118 mm
Compression ratio	17.5
Rated speed	1800rpm
Max. Standby power at rated speed	105kW
Governor type	Electronic

**Exhaust System**

Exhaust gas flow	27.9 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	5kPa

**Air Intake System**

Max intake restriction	6kPa
Combustion air flow	9.14 m <sup>3</sup> /min
Air flow required for radiator	220 m <sup>3</sup> /min

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Fuel consumption @ 100% (Prime Power) Load	207.0g/kWh	25.1L/h
Fuel consumption @ 75% (Prime Power) Load	205.2g/kWh	18.8L/h
Fuel consumption @ 50% (Prime Power) Load	212.7g/kWh	13.4L/h

**Oil System**

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

**Cooling System**

Coolant capacity	23L
Max water temperature	105°C

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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	117.5kVA
Alternator Efficiency	90.6%

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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		

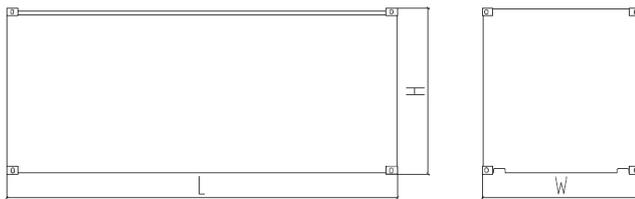
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 2100×700×1300 mm

Weight: 1240 kg



**Soundproof Type**

Overall Dimensions: 2810×1140×1830 mm

Weight: 1740 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**  
**WEBSITE: WWW.BAIFAPOWER.COM**  
**EMAIL: MARKETING@BAIFAPOWER.COM**  
**TEL: +86-510-85342633**

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**POWER GENERATION**

