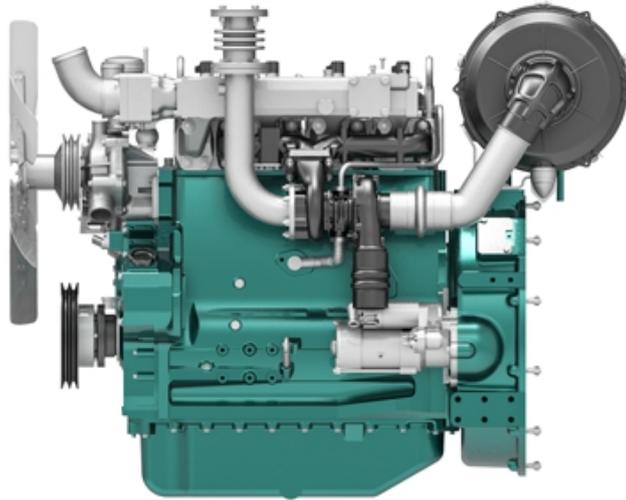


**MODEL: BF-BD100-60**

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



<b>ESP</b> Standby Power	<b>100kVA</b>	<b>PRP</b> Prime Power	<b>93.8kVA</b>
<b>ENGINE</b>	<b>Baudouin</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>4M10G83/6</b>		<b>UCI224G1</b>

**GENERAL FEATURES**

- Engine: Baudouin 4M10G83/6
- 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

**MODEL: BF-BD100-60**

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

### GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	120	80kW/100kVA	75kW/93.8kVA
460/266	60	3	0.8	126	80kW/100kVA	75kW/93.8kVA
440/254	60	3	0.8	131	80kW/100kVA	75kW/93.8kVA
416/240	60	3	0.8	139	80kW/100kVA	75kW/93.8kVA

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-BD100-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 4M10G83/6
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Air intake system	Turbocharged
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Fuel system	Mechanical Pump
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Cylinder arrangement	4 in line
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Displacement	4.087L
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Bore and stroke	105 × 118 mm
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Compression ratio	17.5
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Rated speed	1800rpm
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Max. Standby power at rated speed	95kW
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Governor type	Electronic
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**Exhaust System**

Exhaust gas flow	19.4 m <sup>3</sup> /min
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Exhaust temperature	570°C
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Max back pressure	5kPa
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**Air Intake System**

Max intake restriction	6kPa
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Combustion air flow	6.33 m <sup>3</sup> /min
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Air flow required for radiator	220 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**



**MODEL: BF-BD100-60**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	212.8g/kWh	21.1L/h
Fuel consumption @ 75% (Prime Power) Load	211.6g/kWh	15.8L/h
Fuel consumption @ 50% (Prime Power) Load	220.1g/kWh	11.1L/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	17L
Max water temperature	105°C



**MODEL: BF-BD100-60****440V | 1800rpm | 60Hz****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	97.5kVA
Alternator Efficiency	90.8%

**MODEL: BF-BD100-60****440V | 1800rpm | 60Hz****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		

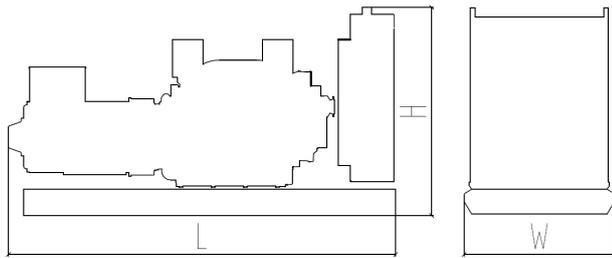
**MODEL: BF-BD100-60**

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

**OPTIONS**

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

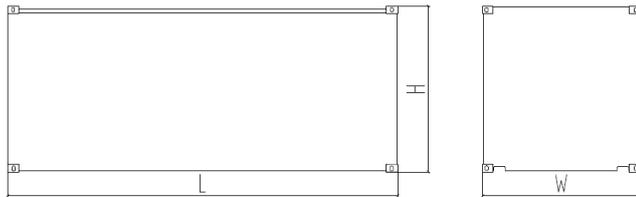
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 1890×700×1300 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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Comprehensive Solutions For  
**POWER GENERATION**

