

MODEL: BF-BD1600-60

440V | 1800rpm | 60Hz



ESP

Standby Power

1600kVA

PRP

Prime Power

1475kVA

ENGINE

Baudouin

12M33G1300/6

ALTERNATOR

STAMFORD

S6L1D-H4

GENERAL FEATURES

Engine: Baudouin 12M33G1300/6

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-BD1600-60**440V | 1800rpm | 60Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	1925	1280kW/1600kVA	1180kW/1475kVA
460/266	60	3	0.8	2008	1280kW/1600kVA	1180kW/1475kVA
440/254	60	3	0.8	2100	1280kW/1600kVA	1180kW/1475kVA
416/240	60	3	0.8	2221	1280kW/1600kVA	1180kW/1475kVA

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.

Comprehensive Solutions For

POWER GENERATION

**MODEL: BF-BD1600-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 12M33G1300/6
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Air intake system	Turbocharged and Aftercooled
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Fuel system	Mechanical Pump
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Cylinder arrangement	12 in V
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Displacement	39.2L
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Bore and stroke	150 × 185 mm
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Compression ratio	15
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Rated speed	1800rpm
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Max. Standby power at rated speed	1420kW
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Governor type	Electronic
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Exhaust System

Exhaust gas flow	320 m ³ /min
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Exhaust temperature	550°C
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Max back pressure	7.5kPa
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Air Intake System

Max intake restriction	6.5kPa
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Combustion air flow	115.5 m ³ /min
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Air flow required for radiator	2100 m ³ /min
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**MODEL: BF-BD1600-60****440V | 1800rpm | 60Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	209.0g/kWh	318.3L/h
Fuel consumption @ 75% (Prime Power) Load	203g/kWh	236.6L/h
Fuel consumption @ 50% (Prime Power) Load	209g/kWh	166.9L/h

Oil System

Total oil capacity	160L
Oil sump capacity	117-155L
Oil fuel consumption ratio based on engine fuel consumption data	$\leq 0.3\%$

Cooling System

Coolant capacity	303L
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	1569kVA
Alternator Efficiency	95.0%

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Related range of voltage setting	$\geq \pm 5\%$
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Steady-state voltage deviation	$\leq \pm 1\%$
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Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
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Transient voltage deviation (sudden power increase)	$\leq -20\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
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Voltage recovery time (sudden power increase)	$\leq 6S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 1.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
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Transient frequency deviation (sudden power increase)	$\leq -10\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
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Frequency recovery time (sudden power increase)	$\leq 5S$
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STANDARD FEATURES

Standard auto control system

Exhaust system (including until muffler)

Documents

Oil drain valve

Starting batteries (maintenance-free & watering-free) with connective wires

MODEL: BF-BD1600-60**440V | 1800rpm | 60Hz****OPTIONS**

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

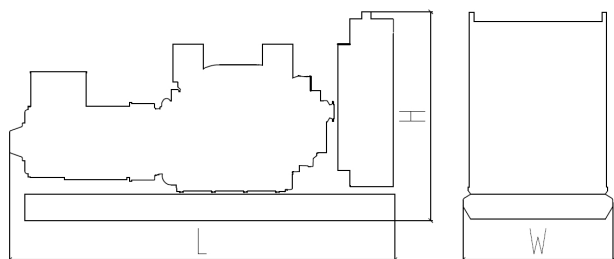
Paralleling system

Spare parts

Trailer type

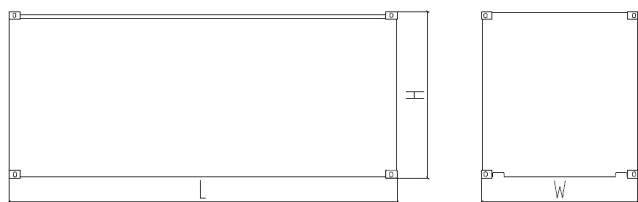
Switch box

Automatic transfer switch

DIMENSIONS & WEIGHT**Standard Configuration (open type)**

Overall Dimensions: 4750×2200×2430 mm

Weight: 9300 kg

**Soundproof Type (standard 20'ft HQ container)**

Overall Dimensions: 6058×2438×2896 mm

Weight: 14300 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