

MODEL: BF-BD3000

400V | 1500rpm | 50Hz



ESP Standby Power	3000 kVA	PRP Prime Power	2750 kVA
ENGINE	Baudouin 12M55G6D3/5	ALTERNATOR	LEROY SOMER LSA 52.3 UL16

GENERAL FEATURES

Engine: Baudouin 12M55G6D3/5

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	3936	2400/3000	2200/2750
415/240	50	3	0.8	4173	2400/3000	2200/2750
400/230	50	3	0.8	4330	2400/3000	2200/2750
380/220	50	3	0.8	4558	2400/3000	2200/2750

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.

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Manufacturer / Model	Baudouin 12M55G6D3/5
Air intake system	Turbo, intercooling
Fuel system	High Pressure Common Rail
Cylinder arrangement	12 cylinders in V
Displacement	65.65 L
Bore and stroke	180×215 mm
Compression ratio	16.5:1
Rated speed	1500rpm
Max. Standby power at rated speed	2700KW
Governor type	ECU

Exhaust System

Exhaust gas flow	553 m ³ /min
Exhaust temperature	N/A
Max back pressure	15 kPa

Air Intake System

Max intake restriction	7 kPa
Combustion air flow	183 m ³ /min
Air flow required for radiator	2880 m ³ /min



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Fuel System

Fuel consumption @ 100% (Prime Power) Load	190.7g/kWh	532 L/h
Fuel consumption @ 75% (Prime Power) Load	188.9g/kWh	398 L/h
Fuel consumption @ 50% (Prime Power) Load	194.8g/kWh	280 L/h

Oil System

Total oil capacity	560L
Oil consumption ratio based on fuel consumption data	$\leq 0.4\text{g/kW}\cdot\text{h}$
Oil sump capacity	380-480L

Cooling System

Coolant capacity	306L (Engine only)
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	2750kVA
Alternator Efficiency	95.9%

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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)	$\leq +20\%$
Transient voltage deviation (sudden power increase)	$\leq -15\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
Voltage recovery time (sudden power increase)	$\leq 4S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 0.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
Transient frequency deviation (sudden power increase)	$\leq -7\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
Frequency recovery time (sudden power increase)	$\leq 3S$

STANDARD FEATURES

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	

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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: 6450×2500×2800 mm

Weight: 19200 kg

*Specifications are subject to change without notice.***BAIFA POWER (WUXI) LTD.****WEBSITE: WWW.BAIFAPOWER.COM****EMAIL: MARKETING@BAIFAPOWER.COM****TEL: +86-510-85342633**