

MODEL: BF-BD3750

400V | 1500rpm | 50Hz



ESP Standby Power	3750 kVA	PRP Prime Power	3250 kVA
ENGINE	Baudouin 16M55G4D3/5	ALTERNATOR	LEROY SOMER LSA 53.2 M12

GENERAL FEATURES

Engine: Baudouin 16M55G4D3/5

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	4921	3000kW/3750kVA	2600kW/3250kVA
415/240	50	3	0.8	5217	3000kW/3750kVA	2600kW/3250kVA
400/230	50	3	0.8	5413	3000kW/3750kVA	2600kW/3250kVA
380/220	50	3	0.8	5698	3000kW/3750kVA	2600kW/3250kVA

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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ENGINE SPECIFICATION

Manufacturer / Model	Baudouin 16M55G4D3/5
Air intake system	Turbo, intercooling
Fuel system	High Pressure Common Rail
Cylinder arrangement	16 cylinders in V
Displacement	87.5 L
Bore and stroke	180×215 mm
Compression ratio	16.5:1
Rated speed	1500rpm
Max. Standby power at rated speed	3300KW
Governor type	ECU

Exhaust System

Exhaust gas flow	736 m ³ /min
Exhaust temperature	N/A
Max back pressure	15 kPa

Air Intake System

Max intake restriction	3 kPa
Combustion air flow	220 m ³ /min
Air flow required for radiator	3600 m ³ /min

**MODEL: BF-BD3750****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	191.3g/kWh	631L/h
Fuel consumption @ 75% (Prime Power) Load	191.2g/kWh	478L/h
Fuel consumption @ 50% (Prime Power) Load	200.2g/kWh	342L/h

Oil System

Total oil capacity	N/A
Oil consumption ratio based on fuel consumption data	$\leq 0.2\text{g/kW}\cdot\text{h}$
Oil sump capacity	445-500L

Cooling System

Coolant capacity	350L(without radiator)
Max water temperature	103°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	3300kVA
Alternator Efficiency	96.3%



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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)	$\leq +20\%$
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: 7300×2500×3000 mm

Weight: 24800 kg

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