

MODEL: BF-BD2750

400V | 1500rpm | 50Hz



ESP Standby Power	2750 kVA	PRP Prime Power	2500 kVA
ENGINE	Baudouin 12M55G4D3/5	ALTERNATOR	STAMFORD S7L1D-J4

GENERAL FEATURES

Engine: Baudouin 12M55G4D3/5

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

**MODEL: BF-BD2750****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	3609	2200kW/2750kVA	2000kW/2500kVA
415/240	50	3	0.8	3826	2200kW/2750kVA	2000kW/2500kVA
400/230	50	3	0.8	3969	2200kW/2750kVA	2000kW/2500kVA
380/220	50	3	0.8	4178	2200kW/2750kVA	2000kW/2500kVA

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 12M55G4D3/5
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	2450KW
Governor type	ECU

Exhaust System

Exhaust gas flow	540.6 m ³ /min
Exhaust temperature	N/A°C
Max back pressure	15 kPa

Air Intake System

Max intake restriction	7 kPa
Combustion air flow	159 m ³ /min
Air flow required for radiator	2880 m ³ /min



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Fuel System

Fuel consumption @ 100% (Prime Power) Load	196.1g/kWh	496 L/h
Fuel consumption @ 75% (Prime Power) Load	194.7g/kWh	373 L/h
Fuel consumption @ 50% (Prime Power) Load	201.1g/kWh	263 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

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	2500kVA
Alternator Efficiency	96.3%

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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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Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

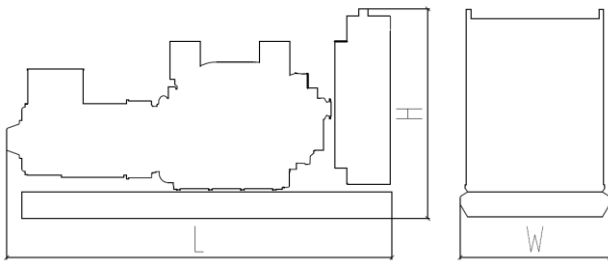
Paralleling system

Spare parts

Trailer type

Switch box

Automatic transfer switch

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

Overall Dimensions: 6450×2500×2800 mm

Weight: 20000 kg

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