

**MODEL: BF-BD2250E**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>2250 kVA</b>	<b>PRP</b> Prime Power	<b>2050 kVA</b>
<b>ENGINE</b>	<b>Baudouin</b> <b>16M33G8D3/5</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>S7L1D-G4</b>

## GENERAL FEATURES

Engine: Baudouin 16M33G8D3/5\*

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-BD2250E****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	2952	1800kW/2250kVA	1640kW/2050kVA
415/240	50	3	0.8	3130	1800kW/2250kVA	1640kW/2050kVA
400/230	50	3	0.8	3248	1800kW/2250kVA	1640kW/2050kVA
380/220	50	3	0.8	3419	1800kW/2250kVA	1640kW/2050kVA

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-BD2250E**

**400V | 1500rpm | 50Hz**

## ENGINE SPECIFICATION

Manufacturer / Model	Baudouin 16M33G8D3/5
Air intake system	Turbo, intercooling
Fuel system	High Pressure Common Rail
Cylinder arrangement	16 cylinders in V
Displacement	52.3 L
Bore and stroke	150×185 mm
Compression ratio	14:1
Rated speed	1500rpm
Max. Standby power at rated speed	1980KW
Governor type	ECU

## Exhaust System

Exhaust gas flow	430.6 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	7.5 kPa

## Air Intake System

Max intake restriction	6.2 kPa
Combustion air flow	127.8 m <sup>3</sup> /min
Air flow required for radiator	3480 m <sup>3</sup> /min

**MODEL: BF-BD2250E****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	200.5g/kWh	420L/h
Fuel consumption @ 75% (Prime Power) Load	194.5g/kWh	309L/h
Fuel consumption @ 50% (Prime Power) Load	197g/kWh	215L/h

**Oil System**

Total oil capacity	175L
Oil consumption ratio based on fuel consumption data	$\leq 0.3 \%$
Oil sump capacity	114-171L

**Cooling System**

Coolant capacity	542L
Max water temperature	103°C



**MODEL: BF-BD2250E**

**400V | 1500rpm | 50Hz**

## 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	2080kVA
Alternator Efficiency	96.0%

**MODEL: BF-BD2250E**

**400V | 1500rpm | 50Hz**

## 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	

**MODEL: BF-BD2250E**

**400V | 1500rpm | 50Hz**

## 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: 5340×2200×2550 mm

Weight: 13400 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**

**WEBSITE: [WWW.BAIFAPOWER.COM](http://WWW.BAIFAPOWER.COM)**

**EMAIL: [MARKETING@BAIFAPOWER.COM](mailto:MARKETING@BAIFAPOWER.COM)**

**TEL: +86-510-85342633**