

**MODEL: BF-BD2500-60**

**440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>2500kVA</b>	<b>PRP</b> Prime Power	<b>2250kVA</b>
<b>ENGINE</b>	<b>Baudouin</b> <b>20M33G2000/6</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>PI734F1</b>

## GENERAL FEATURES

Engine: Baudouin 20M33G2000/6

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-BD2500-60****440V | 1800rpm | 60Hz**

## GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	3007	2000kW/2500kVA	1800kW/2250kVA
460/266	60	3	0.8	3138	2000kW/2500kVA	1800kW/2250kVA
440/254	60	3	0.8	3280	2000kW/2500kVA	1800kW/2250kVA
416/240	60	3	0.8	3470	2000kW/2500kVA	1800kW/2250kVA

**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-BD2500-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 20M33G2000/6
----------------------	-----------------------

Air intake system	Turbocharged and Aftercooled
-------------------	------------------------------

Fuel system	High Pressure Common Rail
-------------	---------------------------

Cylinder arrangement	20 in V
----------------------	---------

Displacement	65.4L
--------------	-------

Bore and stroke	150 × 185 mm
-----------------	--------------

Compression ratio	15
-------------------	----

Rated speed	1800rpm
-------------	---------

Max. Standby power at rated speed	2230kW
-----------------------------------	--------

Governor type	ECU
---------------	-----

**Exhaust System**

Exhaust gas flow	557.3 m <sup>3</sup> /min
------------------	---------------------------

Exhaust temperature	550°C
---------------------	-------

Max back pressure	7.5kPa
-------------------	--------

**Air Intake System**

Max intake restriction	5kPa
------------------------	------

Combustion air flow	172 m <sup>3</sup> /min
---------------------	-------------------------

Air flow required for radiator	3480 m <sup>3</sup> /min
--------------------------------	--------------------------

**MODEL: BF-BD2500-60****440V | 1800rpm | 60Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	204.3g/kWh	467.6L/h
Fuel consumption @ 75% (Prime Power) Load	201.3g/kWh	350.9L/h
Fuel consumption @ 50% (Prime Power) Load	209.5g/kWh	250.1L/h

**Oil System**

Total oil capacity	240L
Oil sump capacity	210-240L
Oil fuel consumption ratio based on engine fuel consumption data	$\leq 0.3\%$

**Cooling System**

Coolant capacity	410L
Max water temperature	103°C

**MODEL: BF-BD2500-60****440V | 1800rpm | 60Hz**

## 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	95.9%

**MODEL: BF-BD2500-60****440V | 1800rpm | 60Hz**

## 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-BD2500-60**

**440V | 1800rpm | 60Hz**

## OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

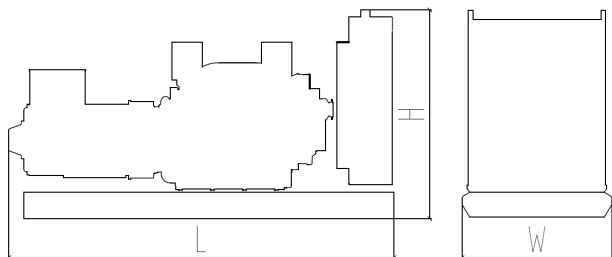
Spare parts

Trailer type

Switch box

Automatic transfer switch

## DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 6250×2320×2600 mm

Weight: 14900 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**

**WEBSITE: WWW.BAIFAPOWER.COM**

**EMAIL: MARKETING@BAIFAPOWER.COM**

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

Comprehensive Solutions For  
**POWER GENERATION**