

**MODEL: BF-BD2250**

**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>20M33G2250/5</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>PI734F1</b>

## GENERAL FEATURES

Engine: Baudouin 20M33G2250/5

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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Voltage	Hz	Phase	PF ( COS $\Phi$ )	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.

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## ENGINE SPECIFICATION

Manufacturer / Model Baudouin 20M33G2250/5

Air intake system Turbo, intercooling

Fuel system High Pressure Common Rail

Cylinder arrangement 20 cylinders in V

Displacement 65.4 L

Bore and stroke 150×185 mm

Compression ratio 15:1

Rated speed 1500rpm

Max. Standby power at rated speed 2020KW

Governor type ECU

## Exhaust System

Exhaust gas flow 458 m<sup>3</sup>/min

Exhaust temperature 550°C

Max back pressure 7.5 kPa

## Air Intake System

Max intake restriction 5 kPa

Combustion air flow 143 m<sup>3</sup>/min

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

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Fuel consumption @ 100% (Prime Power) Load	196.1 g/kWh	412.6 L/h
Fuel consumption @ 75% (Prime Power) Load	197.9 g/kWh	315.1 L/h
Fuel consumption @ 50% (Prime Power) Load	204.9 g/kWh	224.3 L/h

**Oil System**

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

**Cooling System**

Coolant capacity	410L
Max water temperature	103°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	2080kVA
Alternator Efficiency	96.0%



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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

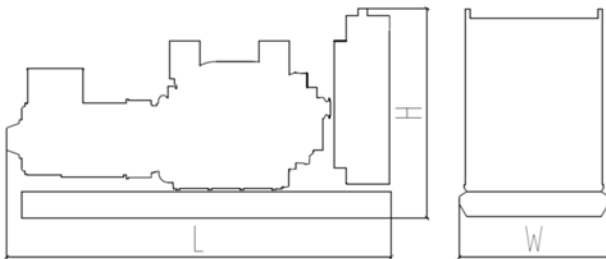
Spare parts

Trailer type

Switch box

Automatic transfer switch

## DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 6250×2320×2600 mm

Weight: 14900 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**