

MODEL: BF-M3000-60**440V | 1800rpm | 60Hz****ESP**

Standby Power

3438kVA**PRP**

Prime Power

3125kVA**ENGINE****MTU****20V4000G24S****ALTERNATOR****MECC ALTE****EC046-VL****GENERAL FEATURES**

Engine: MTU 20V4000G24S

Alternator: single bearing, IP23, insulation class H

40°C radiator, fans are driven by motor, 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 (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	4135	2750kW/3438kVA	2500kW/3125kVA
460/266	60	3	0.8	4315	2750kW/3438kVA	2500kW/3125kVA
440/254	60	3	0.8	4511	2750kW/3438kVA	2500kW/3125kVA
416/240	60	3	0.8	4772	2750kW/3438kVA	2500kW/3125kVA

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.

Comprehensive Solutions For

POWER GENERATION

**MODEL: BF-M3000-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	MTU 20V4000G24S
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Air intake system	Turbocharged, water/air intercooling
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Fuel system	Electronic Fuel Injection System
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Cylinder arrangement	20 in V
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Displacement	95.4L
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Bore and stroke	170×210 mm
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Compression ratio	16.4
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Rated speed	1800rpm
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Max. Standby power at rated speed	3014kW
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Governor type	ADEC
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Exhaust System

Exhaust gas flow	618 m ³ /min
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Exhaust temperature	480°C
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Max back pressure	8.5kPa
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Air Intake System

Max intake restriction	5kPa
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Combustion air flow	246 m ³ /min
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Air flow required for radiator	4200 m ³ /min
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Fuel System

Fuel consumption @ 100% (Prime Power) Load	195g/kWh	613L/h
Fuel consumption @ 75% (Prime Power) Load	196g/kWh	467L/h
Fuel consumption @ 50% (Prime Power) Load	210g/kWh	345L/h

Oil System

Total oil capacity	390L
Oil consumption	0.3% of Fuel Consumption
Oil sump capacity	268-340L

Cooling System

Coolant capacity	547L
Max water temperature	102°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	3125kVA
Alternator Efficiency	97.2%



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GENERATING SET DATA

Related range of voltage setting	$\geq \pm 5\%$
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Steady-state voltage deviation	$\leq \pm 1\%$
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Transient voltage deviation (100 % sudden power decrease)	$\leq +20\%$
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Transient voltage deviation (sudden power increase)	$\leq -15\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
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Voltage recovery time (sudden power increase)	$\leq 4S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 0.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
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Transient frequency deviation (sudden power increase)	$\leq -7\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
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Frequency recovery time (sudden power increase)	$\leq 3S$
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STANDARD FEATURES

Standard auto control system

Exhaust system (including until muffler)

Documents

Oil drain valve

Starting batteries (maintenance-free & watering-free) with connective wires

Fuel-Water separator

Special coolant

MODEL: BF-M3000-60**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: 8000×3000×2850 mm

Weight: 20200kg

**Soundproof Type (standard 40'ft HQ container)**

Overall Dimensions: 12192×2438×2896 mm

Weight: 30200kg

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

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POWER GENERATION