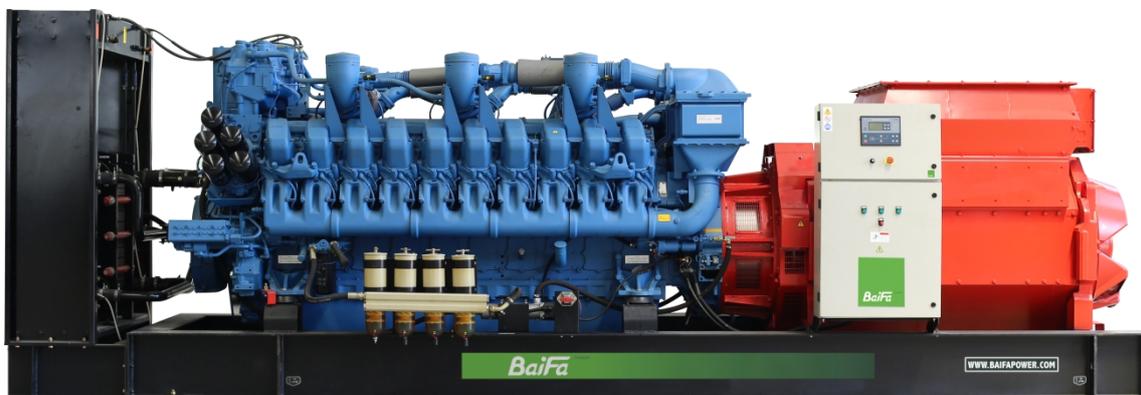


**MODEL: BF-M3000**

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



<b>ESP</b> Standby Power	<b>3000 kVA</b>	<b>PRP</b> Prime Power	<b>2750 kVA</b>
<b>ENGINE</b>	<b>MTU</b>	<b>ALTERNATOR</b>	<b>MECC ALTE</b>
	<b>20V4000G74F</b>		<b>ECO 46-VL</b>

**GENERAL FEATURES**

Engine: MTU 20V4000G74F

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

**MODEL: BF-M3000**

**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	3936	2400/3000	2200/2750
415/240	50	3	0.8	4173	2400/3000	2200/2750
400/230	50	3	0.8	4330	2400/3000	2200/2750
380/220	50	3	0.8	4558	2400/3000	2200/2750

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv ISO8528) ; 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-M3000****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	MTU/20V4000G74F
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Air intake system	Turbocharged, water/air inter cooling
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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	16.4:1
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Rated speed	1500 rpm
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Max. Standby power at rated speed	2670kW (without fan)
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Governor type	ADEC
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**Exhaust System**

Exhaust gas flow	486 m <sup>3</sup> / min
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Exhaust temperature	570 °C
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Max back pressure	8.5 kPa
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**Air Intake System**

Max intake restriction	5 kPa
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Combustion air flow	158 m <sup>3</sup> /min
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Air flow required for radiator	3000 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**



**MODEL: BF-M3000**

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

**Fuel System**

Fuel consumption @ 100% (Standby Power) Load	192 g/kWh	578 L/h
Fuel consumption @ 75% (Standby Power) Load	192 g/kWh	436 L/h
Fuel consumption @ 50% (Standby Power) Load	200 g/kWh	309 L/h

**Oil System**

Total oil capacity	390 L
Oil consumption	0.3% Fuel Consumption
Oil sump capacity	268~315L

**Cooling System**

Coolant capacity	600 L
Max water temperature	104°C



**MODEL: BF-M3000**

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

## 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	2800 kVA
Alternator Efficiency	96.9%



**MODEL: BF-M3000****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**

Comap 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

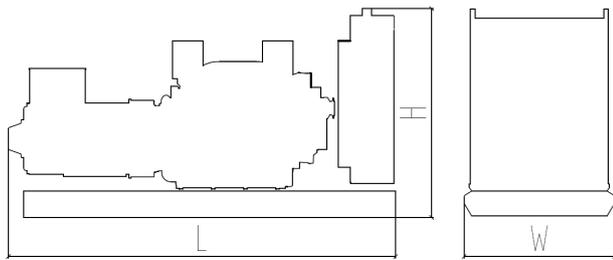
**MODEL: BF-M3000**

**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		

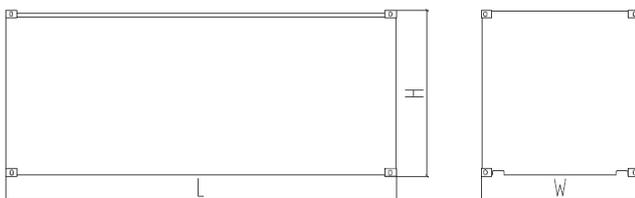
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 8000×3000×2850 mm

Weight: 20200 kg



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

Overall Dimensions: 12192×2438×2896mm

Weight: 30200kg

*Specifications are subject to change without notice.*

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Comprehensive Solutions For  
**POWER GENERATION**

