

**MODEL: BF-M1800**

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



<b>ESP</b> Standby Power	<b>1800 kVA</b>	<b>PRP</b> Prime Power	<b>1640 kVA</b>
<b>ENGINE</b>	<b>MTU</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>12V4000G74F</b>		<b>S7L1D-D4</b>

## GENERAL FEATURES

Engine: MTU 12V4000G74F

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

Permanent Magnet Generator ( PMG )

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## GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings ( kW / kVA )
440/254	50	3	0.8	2362	1440/1800	1312/1640
415/240	50	3	0.8	2504	1440/1800	1312/1640
400/230	50	3	0.8	2598	1440/1800	1312/1640
380/220	50	3	0.8	2734	1440/1800	1312/1640

**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-M1800****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	MTU/12V4000G74F
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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	12 in V
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Displacement	57.2L
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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	1575kW (without fan)
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Governor type	ADEC
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**Exhaust System**

Exhaust gas flow	270 m <sup>3</sup> / min
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Exhaust temperature	460 °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	108 m <sup>3</sup> /min
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Air flow required for radiator	1860 m <sup>3</sup> /min
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**MODEL: BF-M1800****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Standby Power) Load	189 g/kWh	345L/h
Fuel consumption @ 75% (Standby Power) Load	194 g/kWh	266L/h
Fuel consumption @ 50% (Standby Power) Load	200 g/kWh	185L/h

**Oil System**

Total oil capacity	260 L
Oil consumption	0.3% Fuel Consumption
Oil sump capacity	160~200L

**Cooling System**

Coolant capacity	450 L
Max water temperature	104°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, PMG exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	<50
THF	<2%
Alternator Capacity	1650 kVA
Alternator Efficiency	95.5%

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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 &amp; watering-free) with connective wires

Fuel-Water separator

Special coolant

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## OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

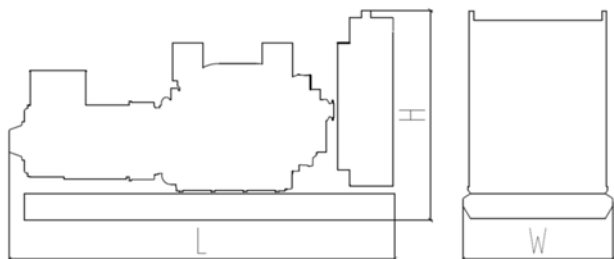
Spare parts

Trailer type

Switch box

Automatic transfer switch

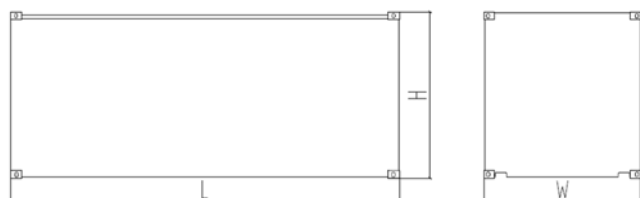
## DIMENSIONS & WEIGHT



### Standard Configuration (open type)

Overall Dimensions: 6050×2100×2600 mm

Weight: 12800 kg



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

Overall Dimensions: 12192×2438×2896mm

Weight: 22800kg

*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**