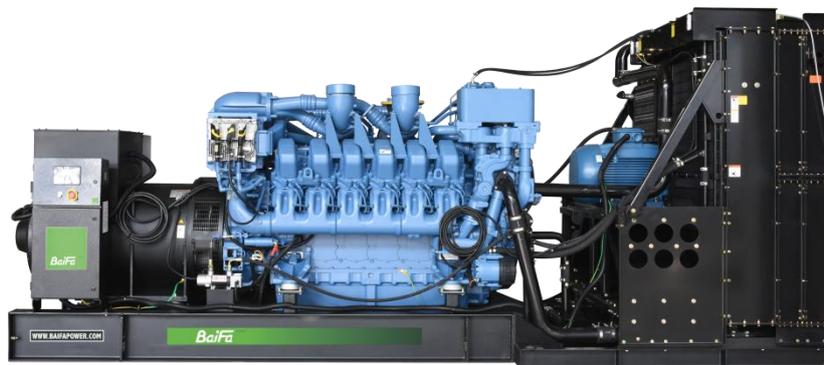


**MODEL: BF-M1800**

**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>12V4000G23F</b>		<b>S7L1D-D4</b>

**GENERAL FEATURES**

Engine: MTU 12V4000G23F

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 )

**MODEL: BF-M1800****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

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

Comprehensive Solutions For

**POWER GENERATION**

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

Manufacturer / Model	MTU/12V4000G23F
----------------------	-----------------

Air intake system	Turbocharged, water/air inter cooling
-------------------	---------------------------------------

Fuel system	Electronic Fuel Injection System
-------------	----------------------------------

Cylinder arrangement	12 in V
----------------------	---------

Displacement	57.2L
--------------	-------

Bore and stroke	170x210 mm
-----------------	------------

Compression ratio	16.4:1
-------------------	--------

Rated speed	1500 rpm
-------------	----------

Max. Standby power at rated speed	1562kW (without fan)
-----------------------------------	----------------------

Governor type	ADEC
---------------	------

**Exhaust System**

Exhaust gas flow	264 m <sup>3</sup> / min
------------------	--------------------------

Exhaust temperature	475 °C
---------------------	--------

Max back pressure	8.5 kPa
-------------------	---------

**Air Intake System**

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

Combustion air flow	108 m <sup>3</sup> /min
---------------------	-------------------------

Air flow required for radiator	1860 m <sup>3</sup> /min
--------------------------------	--------------------------

Comprehensive Solutions For

**POWER GENERATION**



**MODEL: BF-M1800**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	189 g/kWh	314L/h
Fuel consumption @ 75% (Prime Power) Load	195 g/kWh	244L/h
Fuel consumption @ 50% (Prime Power) Load	203 g/kWh	172L/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



**MODEL: BF-M1800****400V | 1500rpm | 50Hz****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	1650kVA
Alternator Efficiency	95.5%

**MODEL: BF-M1800****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**

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

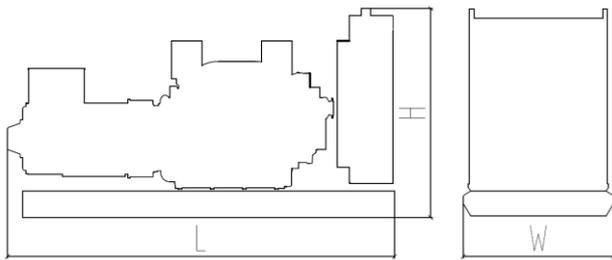
**MODEL: BF-M1800**

**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		

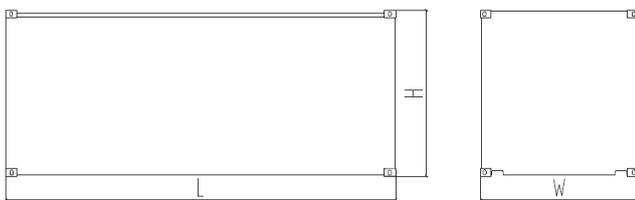
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 6050x2100x2600 mm

Weight: 12800 kg



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

Overall Dimensions: 12192x2438x2896mm

Weight: 22800kg

*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**

