

**MODEL: BF-M2250**

**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>MTU</b> <b>16V4000G14F</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>S7L1D-G4</b>

## GENERAL FEATURES

Engine: MTU 16V4000G14F

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-M2250****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	2952	1800/2250	1640/2050
415/240	50	3	0.8	3130	1800/2250	1640/2050
400/230	50	3	0.8	3247	1800/2250	1640/2050
380/220	50	3	0.8	3418	1800/2250	1640/2050

**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-M2250****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	MTU/16V4000G14F
----------------------	-----------------

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

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

Cylinder arrangement	16 in V
----------------------	---------

Displacement	76.3L
--------------	-------

Bore and stroke	170×210 mm
-----------------	------------

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

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

Max. Standby power at rated speed	1978kW (without fan)
-----------------------------------	----------------------

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

**Exhaust System**

Exhaust gas flow	348 m <sup>3</sup> / min
------------------	--------------------------

Exhaust temperature	485 °C
---------------------	--------

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

**Air Intake System**

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

Combustion air flow	138 m <sup>3</sup> /min
---------------------	-------------------------

Air flow required for radiator	1980 m <sup>3</sup> /min
--------------------------------	--------------------------

**MODEL: BF-M2250****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	188 g/kWh	388 L/h
Fuel consumption @ 75% (Prime Power) Load	191 g/kWh	297 L/h
Fuel consumption @ 50% (Prime Power) Load	201 g/kWh	212 L/h

**Oil System**

Total oil capacity	300 L
Oil consumption	0.3% Fuel Consumption
Oil sump capacity	210~240L

**Cooling System**

Coolant capacity	480 L
Max water temperature	104°C

**MODEL: BF-M2250****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	2080 kVA
Alternator Efficiency	96.0%

**MODEL: BF-M2250****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 &amp; watering-free) with connective wires

Fuel-Water separator

Special coolant

**MODEL: BF-M2250**

**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

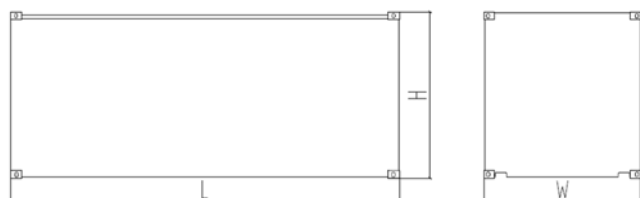
## DIMENSIONS & WEIGHT



### Standard Configuration (open type)

Overall Dimensions: 6900×2350×2600 mm

Weight: 15800 kg



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

Overall Dimensions: 12192×2438×2896mm

Weight: 25800kg

*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**

Comprehensive Solutions For  
**POWER GENERATION**