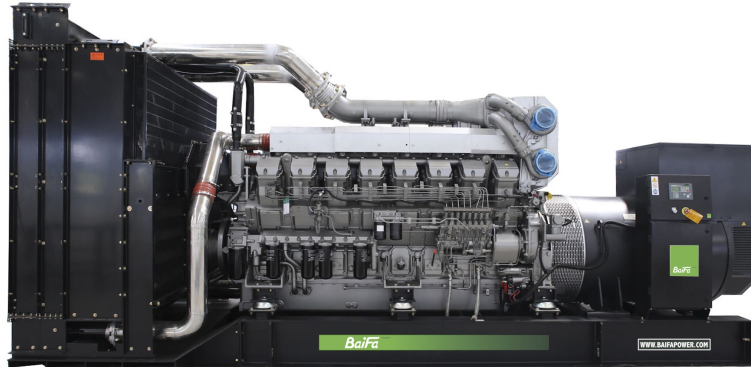


**MODEL: BF-SM2500**
**400V | 1500rpm | 50Hz**


<b>ESP</b> Standby Power	<b>2500 kVA</b>	<b>PRP</b> Prime Power	<b>2250 kVA</b>
<b>ENGINE</b>	<b>MITSUBISHI</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>S16R2-PTAW-C</b>		<b>PI734H1</b>

## GENERAL FEATURES

Engine: MITSUBISHI S16R2-PTAW-C

Alternator: single bearing, IP23, insulation class H

40°C radiator, fans are driven by belt, 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-SM2500**

**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	3280	2000/2500	1800/2250
415/240	50	3	0.8	3478	2000/2500	1800/2250
400/230	50	3	0.8	3608	2000/2500	1800/2250
380/220	50	3	0.8	3798	2000/2500	1800/2250

**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.

**MODEL: BF-SM2500****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Mitsubishi S16R2-PTAW-C
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Air intake system	Turbo, Water/Air Cooling
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Fuel system	Bosch PS8
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Cylinder arrangement	16 in "V"
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Displacement	79.9L
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Bore and stroke	170×220 (mm)
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Compression ratio	14
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Rated speed	1500rpm
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Max. Standby power at rated speed	2167KW/2905HP
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Governor type	Electronic
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**Exhaust System**

Exhaust gas flow	498 m <sup>3</sup> /min
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Exhaust temperature	520 °C
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Max back pressure	5.8kPa
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**Air Intake System**

Max intake restriction	6.0kPa
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Combustion air flow	188 m <sup>3</sup> /min
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Air flow required for radiator	2700 m <sup>3</sup> /min
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**MODEL: BF-SM2500****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	209 g/kWh	476.5 L/h
Fuel consumption @ 75% (Prime Power) Load	N/A	N/A
Fuel consumption @ 50% (Prime Power) Load	N/A	N/A

**Oil System**

Total oil capacity	290L
Oil consumption	0.8g/kwh
Oil sump capacity	200~260L

**Cooling System**

Coolant capacity	550L
Max water temperature	98°C

**MODEL: BF-SM2500****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 exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	<50
THF	<2%
Alternator Capacity	2325kVA
Alternator Efficiency	96.1%

**MODEL: BF-SM2500****400V | 1500rpm | 50Hz****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)	$\leq +25\%$
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Transient voltage deviation (sudden power increase)	$\leq -20\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
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Voltage recovery time (sudden power increase)	$\leq 6S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 1.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
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Transient frequency deviation (sudden power increase)	$\leq -10\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
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Frequency recovery time (sudden power increase)	$\leq 5S$
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**STANDARD FEATURES**

Standard auto control system	Exhaust system (including until muffler)	Documents
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Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	
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**MODEL: BF-SM2500**

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

## OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

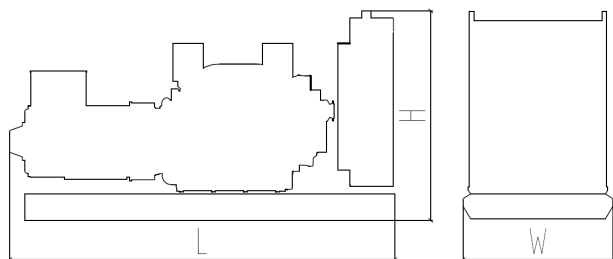
Spare parts

Trailer type

Switch box

Automatic transfer switch

## DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 5800×2210×2600 mm

Weight: 17200 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**

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Comprehensive Solutions For  
**POWER GENERATION**