

**MODEL: BF-SM1900**

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



<b>ESP</b> Standby Power	<b>1900 kVA</b>	<b>PRP</b> Prime Power	<b>1740 kVA</b>
<b>ENGINE</b>	<b>MITSUBISHI</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>S16R-PTA-C</b>		<b>S7L1D-E4</b>

**GENERAL FEATURES**

Engine: MITSUBISHI S16R-PTA-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

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Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	2492	1520/1900	1392/1740
415/240	50	3	0.8	2643	1520/1900	1392/1740
400/230	50	3	0.8	2742	1520/1900	1392/1740
380/220	50	3	0.8	2886	1520/1900	1392/1740

**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-SM1900****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Mitsubishi S16R-PTA-C
Air intake system	Turbo, Water/Air Cooling
Fuel system	Mitsubishi PS6
Cylinder arrangement	16 in "V"
Displacement	65.37L
Bore and stroke	170×180 (mm)
Compression ratio	13.5
Rated speed	1500rpm
Max. Standby power at rated speed	1590KW/2132HP
Governor type	Electronic

**Exhaust System**

Exhaust gas flow	376 m <sup>3</sup> /min
Exhaust temperature	520 °C
Max back pressure	5.8kPa

**Air Intake System**

Max intake restriction	6.1kPa
Combustion air flow	142 m <sup>3</sup> /min
Air flow required for radiator	2100 m <sup>3</sup> /min



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**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	214 g/kWh	376.4 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	230L
Oil consumption	≤4g/kWh
Oil sump capacity	140~200L

**Cooling System**

Coolant capacity	350L
Max water temperature	98°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 exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	<50
THF	<2%
Alternator Capacity	1750kVA
Alternator Efficiency	96.0%

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Related range of voltage setting	$\geq \pm 5\%$
Steady-state voltage deviation	$\leq \pm 1\%$
Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
Transient voltage deviation (sudden power increase)	$\leq -20\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
Voltage recovery time (sudden power increase)	$\leq 6S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 1.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
Transient frequency deviation (sudden power increase)	$\leq -10\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
Frequency recovery time (sudden power increase)	$\leq 5S$

**STANDARD FEATURES**

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

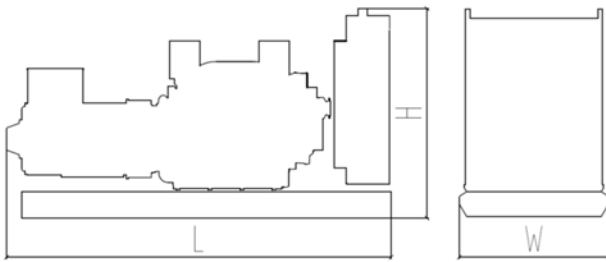
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**OPTIONS**

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: 5450×2200×2550 mm
Weight: 13000 kg

*Specifications are subject to change without notice.*

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