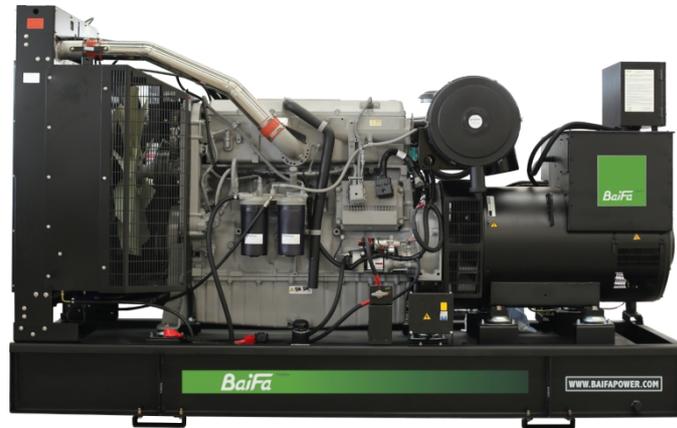


**MODEL: BF-P500**

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



<b>ESP</b> Standby Power	<b>500 kVA</b>	<b>PRP</b> Prime Power	<b>450 kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>2506C-E15TAG1</b>		<b>S4L1D-G41</b>

## GENERAL FEATURES

Engine: Perkins 2506C-E15TAG1

Alternator: single bearing, IP23, insulation class H

50°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-P500**

**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	656	400kW/500kVA	360kW/450kVA
415/240	50	3	0.8	696	400kW/500kVA	360kW/450kVA
400/230	50	3	0.8	722	400kW/500kVA	360kW/450kVA
380/220	50	3	0.8	760	400kW/500kVA	360kW/450kVA

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-P500****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 2506C-E15TAG1
Air intake system	Turbocharged, air to air charge cooling
Fuel system	MEUI
Cylinder arrangement	6 in line
Displacement	15L
Bore and stroke	137×171 mm
Compression ratio	16:1
Rated speed	1500rpm
Max. Standby power at rated speed	451KW
Governor type	Electronic

**Exhaust System**

Exhaust gas flow	94 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	6.8kPa

**Air Intake System**

Max intake restriction	6.2kPa
Combustion air flow	35.8 m <sup>3</sup> /min
Air flow required for radiator	660 m <sup>3</sup> /min



**MODEL: BF-P500**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	216 g/kWh	100.3 L/h
Fuel consumption @ 75% (Prime Power) Load	212 g/kWh	73.8 L/h
Fuel consumption @ 50% (Prime Power) Load	222 g/kWh	52.3 L/h

**Oil System**

Total oil capacity	62L
Oil consumption ratio based on fuel consumption data	0.1%(As a percentage of fuel consumption)
Oil sump capacity	45-53L

**Cooling System**

Coolant capacity	58L
Max water temperature	107°C



**MODEL: BF-P500**
**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	450kVA
Alternator Efficiency	93.3%

**MODEL: BF-P500****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	MCCB

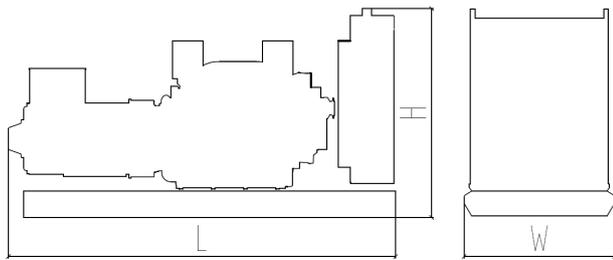
**MODEL: BF-P500**

**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		

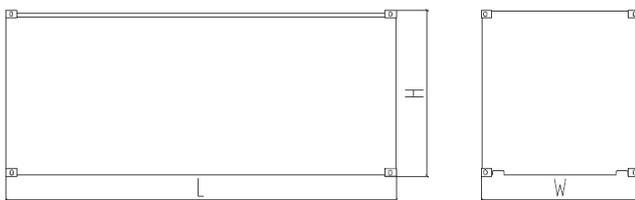
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 3400×1270×1974 mm

Weight: 4000 kg



**Soundproof Type**

Overall Dimensions: 4630×1660×2250 mm

Weight: 5600 kg

*Specifications are subject to change without notice.*

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**POWER GENERATION**

