

MODEL: BF-P14

400V | 1500rpm | 50Hz



ESP Standby Power	13.75 kVA	PRP Prime Power	12.5 kVA
ENGINE	Perkins 403A-15G2	ALTERNATOR	STAMFORD SOL1-L1

GENERAL FEATURES

Engine: Perkins 403A-15G2

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-P14****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	18	11kW/13.75kVA	10kW/12.5kVA
415/240	50	3	0.8	19	11kW/13.75kVA	10kW/12.5kVA
400/230	50	3	0.8	20	11kW/13.75kVA	10kW/12.5kVA
380/220	50	3	0.8	21	11kW/13.75kVA	10kW/12.5kVA

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-P14****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 403A-15G2
Air intake system	Natural aspirated
Fuel system	Indirect Injection
Cylinder arrangement	3 in line
Displacement	1.496L
Bore and stroke	84×90 mm
Compression ratio	22.5:1
Rated speed	1500rpm
Max. Standby power at rated speed	15.1KW
Governor type	Mechanical

Exhaust System

Exhaust gas flow	2.2 m ³ /min
Exhaust temperature	580°C
Max back pressure	10.2kPa

Air Intake System

Max intake restriction	6.4kPa
Combustion air flow	1 m ³ /min
Air flow required for radiator	41.4 m ³ /min

**MODEL: BF-P14****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	260g/kWh	3.8L/h
Fuel consumption @ 75% (Prime Power) Load	251g/kWh	2.7L/h
Fuel consumption @ 50% (Prime Power) Load	271g/kWh	1.9L/h

Oil System

Total oil capacity	6L
Oil consumption as a percentage of full load fuel consumption less than	N/A
Oil sump capacity	4.5-6L

Cooling System

Coolant capacity	6L
Max water temperature	112°C



MODEL: BF-P14

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	12.5kVA
Alternator Efficiency	82.1%

MODEL: BF-P14

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)	$\leq +25\%$
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	MCCB

Base fuel tank

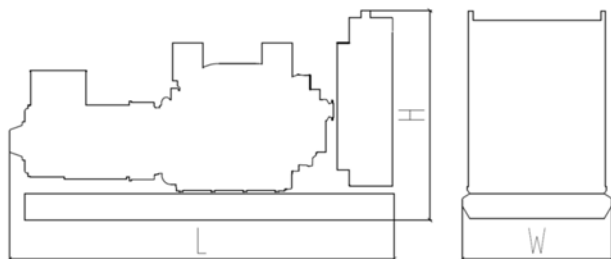
MODEL: BF-P14

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		

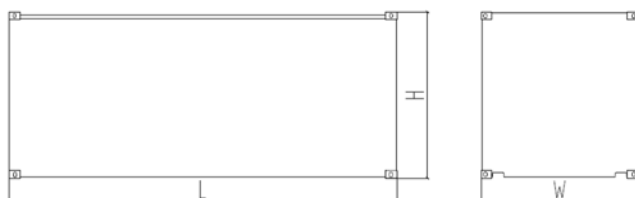
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 1250×500×1100 mm

Weight: 350 kg



Soundproof Type

Overall Dimensions: 1710×880×1350 mm

Weight: 750 kg

Specifications are subject to change without notice.

BAIFA POWER (WUXI) LTD.

WEBSITE: WWW.BAIFAPOWER.COM

EMAIL: MARKETING@BAIFAPOWER.COM

TEL: +86-510-85342633