

MODEL: BF-P1800

400V | 1500rpm | 50Hz



ESP Standby Power	1812.5 kVA	PRP Prime Power	1650 kVA
ENGINE	Perkins 4012-46TAG3A	ALTERNATOR	STAMFORD S7L1D-D4

GENERAL FEATURES

Engine: Perkins 4012-46TAG3A

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-P1800****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	2378	1450kW/1812.5kVA	1320kW/1650kVA
415/240	50	3	0.8	2522	1450kW/1812.5kVA	1320kW/1650kVA
400/230	50	3	0.8	2616	1450kW/1812.5kVA	1320kW/1650kVA
380/220	50	3	0.8	2754	1450kW/1812.5kVA	1320kW/1650kVA

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-P1800****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 4012-46TAG3A
Air intake system	Turbocharged
Fuel system	Direct Injection
Cylinder arrangement	12 in V
Displacement	46L
Bore and stroke	160×190 mm
Compression ratio	13:1
Rated speed	1500rpm
Max. Standby power at rated speed	1643kW
Governor type	Electronic

Exhaust System

Exhaust gas flow	350 m ³ /min
Exhaust temperature	480°C
Max back pressure	5kPa

Air Intake System

Max intake restriction	4kPa
Combustion air flow	135 m ³ /min
Air flow required for radiator	2100 m ³ /min

**MODEL: BF-P1800****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	208 g/kWh	354L/h
Fuel consumption @ 75% (Prime Power) Load	206 g/kWh	265L/h
Fuel consumption @ 50% (Prime Power) Load	202 g/kWh	179L/h

Oil System

Total oil capacity	177L
Oil consumption	0.52g/kWh
Oil sump capacity	115-158L

Cooling System

Coolant capacity	240L
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	1650kVA
Alternator Efficiency	95.5%

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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	

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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		

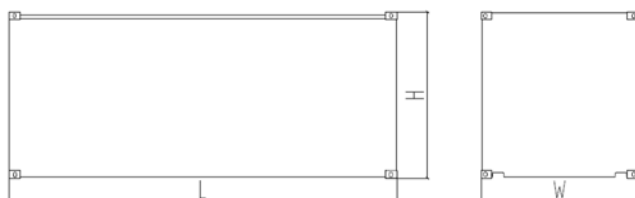
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 5040×2170×2850 mm

Weight: 12800 kg



Soundproof Type (standard 20'ft HQ container)

Overall Dimensions: 6058×2438×2896 mm

Weight: 17800 kg

Specifications are subject to change without notice.

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