

MODEL: BF-P700

400V | 1500rpm | 50Hz



ESP Standby Power	688 kVA	PRP Prime Power	625 kVA
ENGINE	Perkins 2806A-E18TAG2	ALTERNATOR	STAMFORD S5L1D-E41

GENERAL FEATURES

Engine: Perkins 2806A-E18TAG2

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-P700****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	902	550kW/688kVA	500kW/625kVA
415/240	50	3	0.8	956	550kW/688kVA	500kW/625kVA
400/230	50	3	0.8	992	550kW/688kVA	500kW/625kVA
380/220	50	3	0.8	1045	550kW/688kVA	500kW/625kVA

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-P700****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 2806A-E18TAG2
Air intake system	Turbocharged, air to air charge cooling
Fuel system	MEUI
Cylinder arrangement	6 in line
Displacement	18.13L
Bore and stroke	145×183 mm
Compression ratio	14.5:1
Rated speed	1500rpm
Max. Standby power at rated speed	628KW
Governor type	Electronic

Exhaust System

Exhaust gas flow	114 m ³ /min
Exhaust temperature	553°C
Max back pressure	6.9kPa

Air Intake System

Max intake restriction	6.35kPa
Combustion air flow	40 m ³ /min
Air flow required for radiator	702 m ³ /min

**MODEL: BF-P700****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	202 g/kWh	127L/h
Fuel consumption @ 75% (Prime Power) Load	198 g/kWh	94L/h
Fuel consumption @ 50% (Prime Power) Load	201 g/kWh	64L/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	61L
Max water temperature	103°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	625kVA
Alternator Efficiency	94.8%



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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)	$\leq +20\%$
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

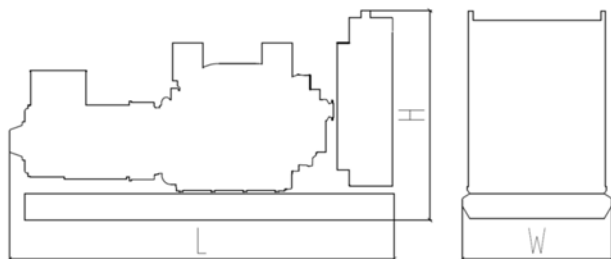
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OPTIONS

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

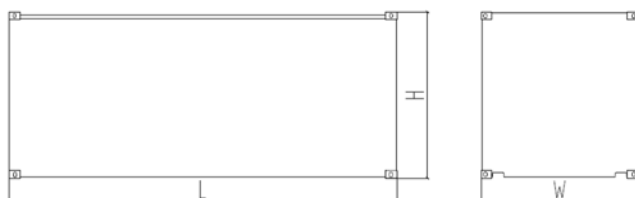
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 3550×1400×2100 mm

Weight: 4500 kg



Soundproof Type

Overall Dimensions: 5030×1660×2550 mm

Weight: 6500 kg

Specifications are subject to change without notice.

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