

**MODEL: BF-P110**

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



<b>ESP</b> Standby Power	<b>110 kVA</b>	<b>PRP</b> Prime Power	<b>100 kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>1104C-44TAG2</b>		<b>UCI274C1</b>

**GENERAL FEATURES**

Engine: Perkins 1104C-44TAG2	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-P110**

**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	144	88kW/110kVA	80kW/100kVA
415/240	50	3	0.8	153	88kW/110kVA	80kW/100kVA
400/230	50	3	0.8	159	88kW/110kVA	80kW/100kVA
380/220	50	3	0.8	167	88kW/110kVA	80kW/100kVA

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-P110****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 1104C-44TAG2
Air intake system	Turbocharged, air to air charge cooled
Fuel system	Direct Injection
Cylinder arrangement	4 in line
Displacement	4.4L
Bore and stroke	105×127 mm
Compression ratio	18.23:1
Rated speed	1500rpm
Max. Standby power at rated speed	103KW
Governor type	Electronic

**Exhaust System**

Exhaust gas flow	16.3 m <sup>3</sup> /min
Exhaust temperature	543°C
Max back pressure	18kPa

**Air Intake System**

Max intake restriction	8kPa
Combustion air flow	6.27 m <sup>3</sup> /min
Air flow required for radiator	165.6 m <sup>3</sup> /min



**MODEL: BF-P110**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	22.6L/h
Fuel consumption @ 75% (Prime Power) Load	17.1L/h
Fuel consumption @ 50% (Prime Power) Load	11.8L/h

**Oil System**

Total oil capacity	8L
Oil consumption as a percentage of full load fuel consumption less than	0.15% (As a percentage of fuel consumption)
Oil sump capacity	5.5~7L

**Cooling System**

Coolant capacity	12.6L
Max water temperature	110°C



**MODEL: BF-P110****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	100kVA
Alternator Efficiency	90.3%

**MODEL: BF-P110****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		

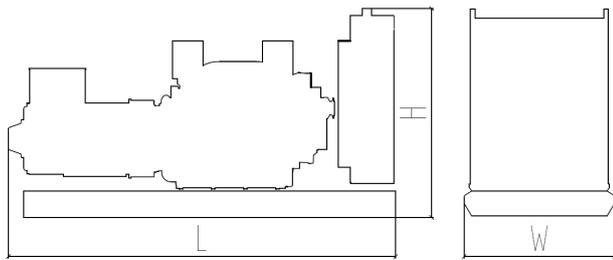
**MODEL: BF-P110**

**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		

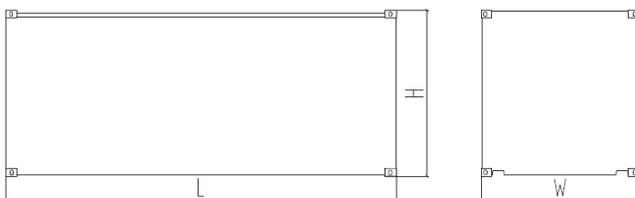
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 2150 × 900 × 1550 mm

Weight: 1300 kg



**Soundproof Type**

Overall Dimensions: 2810 × 1140 × 1830 mm

Weight: 1800 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**  
**WEBSITE: WWW.BAIFAPOWER.COM**  
**EMAIL: MARKETING@BAIFAPOWER.COM**  
**TEL: +86-510-85342633**

Comprehensive Solutions For  
**POWER GENERATION**

