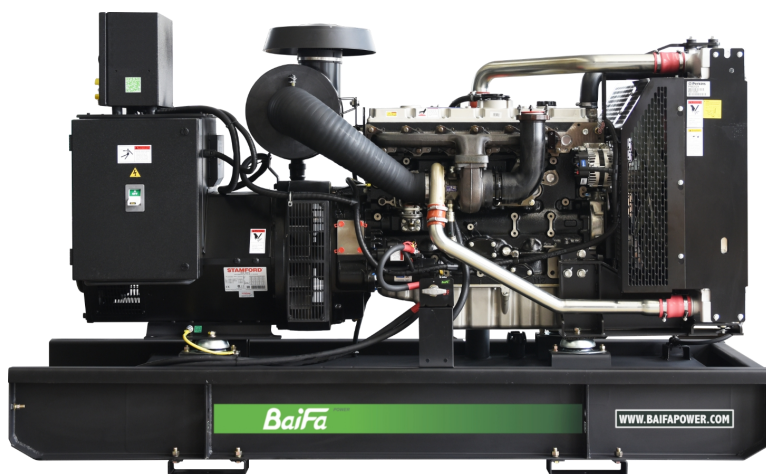


**MODEL: BF-P220**

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



<b>ESP</b> Standby Power	<b>220 kVA</b>	<b>PRP</b> Prime Power	<b>200 kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>1106A-70TAG4</b>		<b>UCI274H1</b>

**GENERAL FEATURES**

Engine: Perkins 1106A-70TAG4

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-P220**

**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	289	176kW/220kVA	160kW/200kVA
415/240	50	3	0.8	306	176kW/220kVA	160kW/200kVA
400/230	50	3	0.8	318	176kW/220kVA	160kW/200kVA
380/220	50	3	0.8	334	176kW/220kVA	160kW/200kVA

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-P220****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 1106A-70TAG4
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Air intake system	Turbocharged aftercooled
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Fuel system	Direct Injection
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Cylinder arrangement	6 in line
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Displacement	7.01L
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Bore and stroke	105×135 mm
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Compression ratio	16:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	196.3KW
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Governor type	Mechanical
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**Exhaust System**

Exhaust gas flow	36.8 m <sup>3</sup> /min
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Exhaust temperature	550°C
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Max back pressure	5kPa
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**Air Intake System**

Max intake restriction	8kPa
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Combustion air flow	13.2 m <sup>3</sup> /min
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Air flow required for radiator	282 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**



**MODEL: BF-P220**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	213 g/kWh	44.2 L/h
Fuel consumption @ 75% (Prime Power) Load	215 g/kWh	33.6 L/h
Fuel consumption @ 50% (Prime Power) Load	215 g/kWh	22.8 L/h

**Oil System**

Total oil capacity	18L
Oil consumption as a percentage of full load fuel consumption less than	0.1% (As a percentage of fuel consumption)
Oil sump capacity	12.5~16.1L

**Cooling System**

Coolant capacity	21L
Max water temperature	110°C



**MODEL: BF-P220**

**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	200kVA
Alternator Efficiency	93.3%

**MODEL: BF-P220****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		

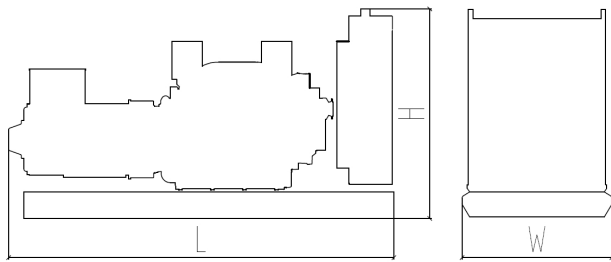
**MODEL: BF-P220**

**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		

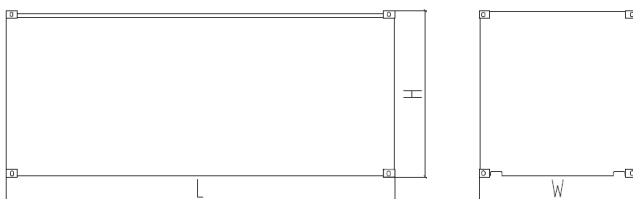
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 2550 × 930 × 1670 mm

Weight: 1900 kg



**Soundproof Type**

Overall Dimensions: 3590 × 1250 × 2050 mm

Weight: 2600 kg

*Specifications are subject to change without notice.*

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Comprehensive Solutions For  
**POWER GENERATION**

