

MODEL: BF-P22

400V | 1500rpm | 50Hz



ESP Standby Power	22 kVA	PRP Prime Power	20 kVA
ENGINE	Perkins 404D-22G	ALTERNATOR	STAMFORD SOL2-G1

GENERAL FEATURES

Engine: Perkins 404D-22G

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

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Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	29	17.6kW/22kVA	16kW/20kVA
415/240	50	3	0.8	31	17.6kW/22kVA	16kW/20kVA
400/230	50	3	0.8	32	17.6kW/22kVA	16kW/20kVA
380/220	50	3	0.8	33	17.6kW/22kVA	16kW/20kVA

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-P22****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 404D-22G
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Air intake system	Natural aspirated
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Fuel system	Indirect Injection
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Cylinder arrangement	4 in line
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Displacement	2.216L
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Bore and stroke	84×100 mm
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Compression ratio	23.3:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	20.6KW
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Governor type	Mechanical
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Exhaust System

Exhaust gas flow	3.94 m ³ /min
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Exhaust temperature	505°C
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Max back pressure	10.2kPa
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Air Intake System

Max intake restriction	6.4kPa
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Combustion air flow	1.45 m ³ /min
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Air flow required for radiator	40.2 m ³ /min
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**MODEL: BF-P22****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	237 g/kWh	5.3 L/h
Fuel consumption @ 75% (Prime Power) Load	238 g/kWh	3.9 L/h
Fuel consumption @ 50% (Prime Power) Load	258 g/kWh	2.9 L/h

Oil System

Total oil capacity	10.6L
Oil consumption as a percentage of full load fuel consumption less than	N/A
Oil sump capacity	8.9-10.6L

Cooling System

Coolant capacity	7L
Max water temperature	112°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	20kVA
Alternator Efficiency	85.3%

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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	MCCB

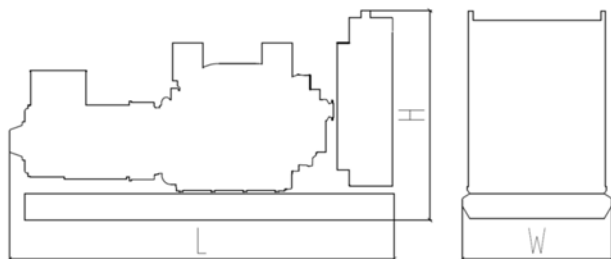
Base fuel tank

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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		

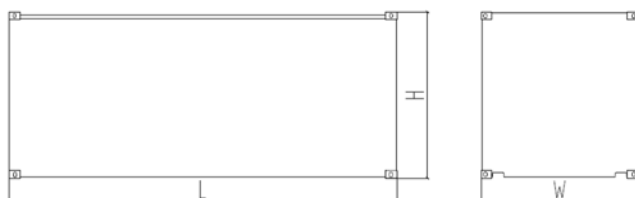
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 1470×690×1320 mm

Weight: 430 kg



Soundproof Type

Overall Dimensions: 1910×880×1450 mm

Weight: 1000 kg

Specifications are subject to change without notice.

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