

**MODEL: BF-P68**

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



<b>ESP</b> Standby Power	<b>68 kVA</b>	<b>PRP</b> Prime Power	<b>62.5 kVA</b>
<b>ENGINE</b>	<b>Perkins</b> <b>1104A-44TG1</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>S1L2-Y1</b>

## GENERAL FEATURES

Engine: Perkins 1104A-44TG1

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	90	55kW/68kVA	50kW/62.5kVA
415/240	50	3	0.8	96	55kW/68kVA	50kW/62.5kVA
400/230	50	3	0.8	99	55kW/68kVA	50kW/62.5kVA
380/220	50	3	0.8	104	55kW/68kVA	50kW/62.5kVA

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-P68****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 1104A-44TG1
Air intake system	Turbocharged
Fuel system	Direct Injection
Cylinder arrangement	4 in line
Displacement	4.4L
Bore and stroke	105×127 mm
Compression ratio	17.25:1
Rated speed	1500rpm
Max. Standby power at rated speed	65.6KW
Governor type	Mechanical

**Exhaust System**

Exhaust gas flow	11.4 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	10kPa

**Air Intake System**

Max intake restriction	8kPa
Combustion air flow	4.2 m <sup>3</sup> /min
Air flow required for radiator	89 m <sup>3</sup> /min

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Fuel consumption @ 100% (Prime Power) Load	14.8L/H
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Fuel consumption @ 75% (Prime Power) Load	11.2L/H
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Fuel consumption @ 50% (Prime Power) Load	8L/H
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**Oil System**

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

Coolant capacity	13L
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Max water temperature	110°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	62.5kVA
Alternator Efficiency	89.9%

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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

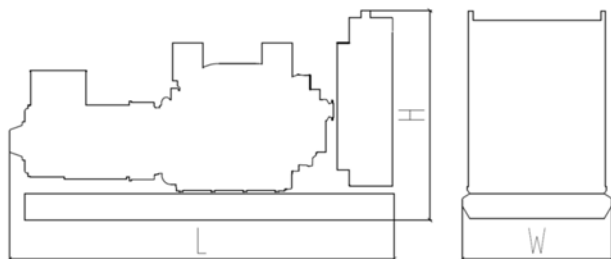
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## OPTIONS

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

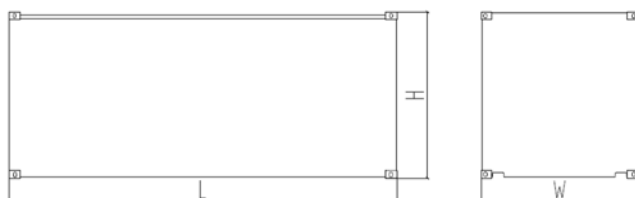
## DIMENSIONS & WEIGHT



### Standard Configuration (open type)

Overall Dimensions: 1660×760×1380 mm

Weight: 1030 kg



### Soundproof Type

Overall Dimensions: 2440×1060×1680 mm

Weight: 1480 kg

*Specifications are subject to change without notice.*

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