

MODEL: BF-P50-60

440V | 1800rpm | 60Hz



ESP Standby Power	57kVA	PRP Prime Power	52kVA
ENGINE	Perkins	ALTERNATOR	STAMFORD
	1103A-33TG1		UCI224C1

GENERAL FEATURES

Engine: Perkins 1103A-33TG1

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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GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	69	46kW/57kVA	42kW/52kVA
460/266	60	3	0.8	72	46kW/57kVA	42kW/52kVA
440/254	60	3	0.8	75	46kW/57kVA	42kW/52kVA
416/240	60	3	0.8	79	46kW/57kVA	42kW/52kVA

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.

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Manufacturer / Model	Perkins 1103A-33TG1
Air intake system	Turbocharged
Fuel system	Direct Injection
Cylinder arrangement	3 in line
Displacement	3.3L
Bore and stroke	105×127 mm
Compression ratio	17.25
Rated speed	1800rpm
Max. Standby power at rated speed	55.6kW
Governor type	Electronic

Exhaust System

Exhaust gas flow	9.5 m ³ /min
Exhaust temperature	551°C
Max back pressure	15kPa

Air Intake System

Max intake restriction	8kPa
Combustion air flow	3.9 m ³ /min
Air flow required for radiator	70 m ³ /min

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Fuel consumption @ 100% (Prime Power) Load	211 g/kWh	12.3 L/h
Fuel consumption @ 75% (Prime Power) Load	216 g/kWh	9.5 L/h
Fuel consumption @ 50% (Prime Power) Load	235.4 g/kWh	7.0 L/h

Oil System

Total oil capacity	8.3L
Oil sump capacity	6.2-7.8L
Oil consumption at full load as a % of fuel consumption	0.15%

Cooling System

Coolant capacity	10.2L
Max water temperature	110°C

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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	52.5kVA
Alternator Efficiency	87.5%

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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

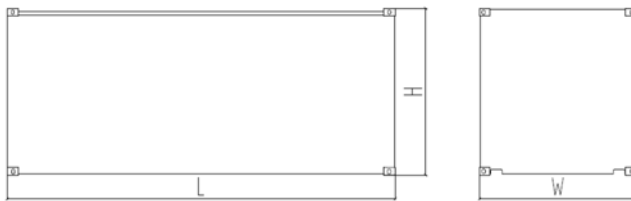
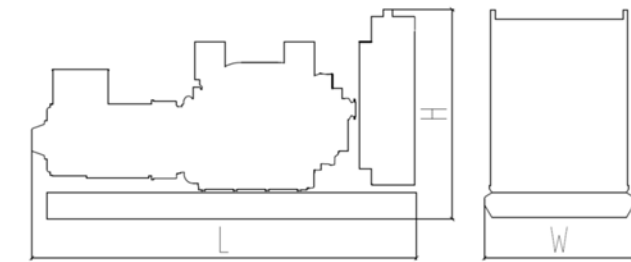
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OPTIONS

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: 1760×760×1380 mm
Weight: 900kg
Soundproof Type
Overall Dimensions: 2290×1060×1680 mm
Weight: 1300kg

Specifications are subject to change without notice.

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