

MODEL: BF-P2250

400V | 1500rpm | 50Hz



ESP Standby Power	2250 kVA	PRP Prime Power	2050 kVA
ENGINE	Perkins	ALTERNATOR	STAMFORD
	4016TAG2A		PI734F1

GENERAL FEATURES

Engine: Perkins 4016TAG2A

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)
440/254	50	3	0.8	2952	1800kW/2250kVA	1640kW/2050kVA
415/240	50	3	0.8	3130	1800kW/2250kVA	1640kW/2050kVA
400/230	50	3	0.8	3248	1800kW/2250kVA	1640kW/2050kVA
380/220	50	3	0.8	3419	1800kW/2250kVA	1640kW/2050kVA

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 4016TAG2A
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Air intake system	Turbocharged
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Fuel system	Direct Injection
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Cylinder arrangement	16 in V
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Displacement	61.123L
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Bore and stroke	160×190 mm
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Compression ratio	13.6:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	1937kW
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Governor type	Electronic
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Exhaust System

Exhaust gas flow	387 m ³ /min
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Exhaust temperature	493°C
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Max back pressure	6.5kPa
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Air Intake System

Max intake restriction	3.7kPa
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Combustion air flow	145 m ³ /min
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Air flow required for radiator	2100 m ³ /min
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Comprehensive Solutions For

POWER GENERATION



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Fuel System

Fuel consumption @ 100% (Prime Power) Load	209 g/kWh	434 L/h
Fuel consumption @ 75% (Prime Power) Load	203 g/kWh	318 L/h
Fuel consumption @ 50% (Prime Power) Load	202 g/kWh	216 L/h

Oil System

Total oil capacity	214L
Oil consumption	0.52g/kWh
Oil sump capacity	147-214L

Cooling System

Coolant capacity	350L
Max water temperature	98°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	2080kVA
Alternator Efficiency	96.0%

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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	

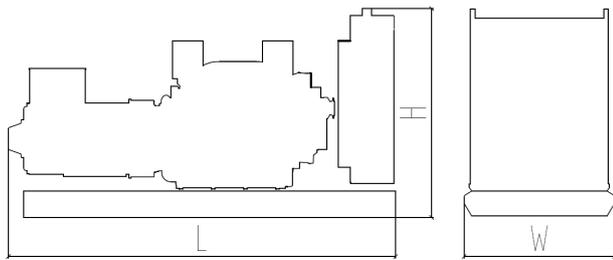
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OPTIONS

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

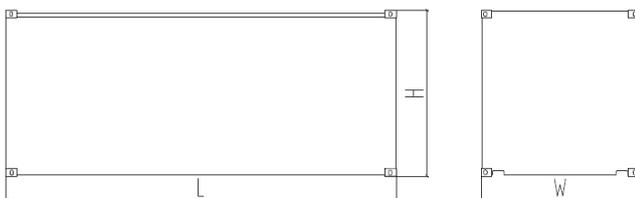
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 5710×2775×3350 mm

Weight: 13700 kg



Soundproof Type (standard 40'ft HQ container)

Overall Dimensions: 12192×2438×2896 mm

Weight: 23700 kg

Specifications are subject to change without notice.

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