

MODEL: BF-BD1800

400V | 1500rpm | 50Hz



ESP Standby Power	1800 kVA	PRP Prime Power	1650 kVA
ENGINE	Baudouin	ALTERNATOR	STAMFORD
	16M33G4D3/5		PI734D1

GENERAL FEATURES

Engine: Baudouin 16M33G4D3/5

Alternator: single bearing, IP23, insulation class H

40°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	2362	1440kW/1800kVA	1320kW/1650kVA
415/240	50	3	0.8	2504	1440kW/1800kVA	1320kW/1650kVA
400/230	50	3	0.8	2598	1440kW/1800kVA	1320kW/1650kVA
380/220	50	3	0.8	2735	1440kW/1800kVA	1320kW/1650kVA

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	Baudouin 16M33G4D3/5
Air intake system	Turbo, intercooling
Fuel system	High Pressure Common Rail
Cylinder arrangement	16 cylinders in V
Displacement	52.3 L
Bore and stroke	150×185 mm
Compression ratio	15:1
Rated speed	1500rpm
Max. Standby power at rated speed	1680KW
Governor type	ECU

Exhaust System

Exhaust gas flow	385.5 m ³ /min
Exhaust temperature	550°C
Max back pressure	7.5 kPa

Air Intake System

Max intake restriction	6.2 kPa
Combustion air flow	116 m ³ /min
Air flow required for radiator	2340 m ³ /min

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Fuel consumption @ 100% (Prime Power) Load	200.4g/kWh	341L/h
Fuel consumption @ 75% (Prime Power) Load	195.6g/kWh	253L/h
Fuel consumption @ 50% (Prime Power) Load	201g/kWh	179L/h

Oil System

Total oil capacity	175L
Oil consumption ratio based on fuel consumption data	≤ 0.3 %
Oil sump capacity	114-171L

Cooling System

Coolant capacity	542L
Max water temperature	103°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	1650kVA
Alternator Efficiency	96.2%

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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)	$\leq +20\%$
Transient voltage deviation (sudden power increase)	$\leq -15\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
Voltage recovery time (sudden power increase)	$\leq 4S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 0.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
Transient frequency deviation (sudden power increase)	$\leq -7\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
Frequency recovery time (sudden power increase)	$\leq 3S$

STANDARD FEATURES

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	

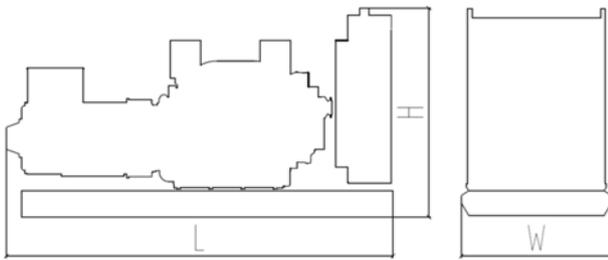
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OPTIONS

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: 5220×2200×2550 mm
Weight: 12300 kg

Specifications are subject to change without notice.

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