

MODEL: BF-BD3100

400V | 1500rpm | 50Hz



ESP Standby Power	3125 kVA	PRP Prime Power	2813 kVA
ENGINE	Baudouin 16M55G0D3/5	ALTERNATOR	LEROY SOMER LSA 53.2 M9

GENERAL FEATURES

Engine: Baudouin 16M55G0D3/5

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

**MODEL: BF-BD3100****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	4101	2500kW/3125kVA	2250kW/2813kVA
415/240	50	3	0.8	4348	2500kW/3125kVA	2250kW/2813kVA
400/230	50	3	0.8	4511	2500kW/3125kVA	2250kW/2813kVA
380/220	50	3	0.8	4748	2500kW/3125kVA	2250kW/2813kVA

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-BD3100****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 16M55G0D3/5
Air intake system	Turbo, intercooling
Fuel system	High Pressure Common Rail
Cylinder arrangement	16 cylinders in V
Displacement	87.5 L
Bore and stroke	180×215 mm
Compression ratio	16.5:1
Rated speed	1500rpm
Max. Standby power at rated speed	2750KW
Governor type	ECU

Exhaust System

Exhaust gas flow	606 m ³ /min
Exhaust temperature	N/A
Max back pressure	15 kPa

Air Intake System

Max intake restriction	7 kPa
Combustion air flow	184 m ³ /min
Air flow required for radiator	3000 m ³ /min

**MODEL: BF-BD3100****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	191.8g/kWh	546 L/h
Fuel consumption @ 75% (Prime Power) Load	195.6g/kWh	422 L/h
Fuel consumption @ 50% (Prime Power) Load	205.4g/kWh	302 L/h

Oil System

Total oil capacity	582L
Oil consumption ratio based on fuel consumption data	$\leq 0.2\text{g/kW}\cdot\text{h}$
Oil sump capacity	405-500L

Cooling System

Coolant capacity	350L(without radiator)
Max water temperature	103°C

**MODEL: BF-BD3100****400V | 1500rpm | 50Hz****ALTERNATOR SPECIFICATION****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	3000kVA
Alternator Efficiency	96.3%

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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)	$\leq +20\%$
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	

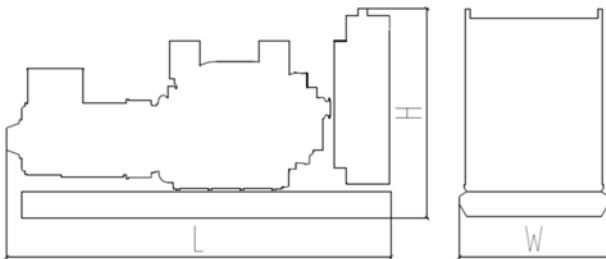
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OPTIONS

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: 7250×2500×3000 mm
Weight: 24000 kg

Specifications are subject to change without notice.

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