

**MODEL: BF-BD4000**

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



<b>ESP</b> Standby Power	<b>4125 kVA</b>	<b>PRP</b> Prime Power	<b>3750 kVA</b>
<b>ENGINE</b>	<b>Baudouin</b> <b>16M55G6D3/5</b>	<b>ALTERNATOR</b>	<b>LEROY SOMER</b> <b>LSA 54 UL110</b>

## GENERAL FEATURES

Engine: Baudouin 16M55G6D3/5

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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Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	5413	3300kW/4125kVA	3000kW/3750kVA
415/240	50	3	0.8	5739	3300kW/4125kVA	3000kW/3750kVA
400/230	50	3	0.8	5954	3300kW/4125kVA	3000kW/3750kVA
380/220	50	3	0.8	6267	3300kW/4125kVA	3000kW/3750kVA

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-BD4000****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 16M55G6D3/5
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	3600KW
Governor type	ECU

**Exhaust System**

Exhaust gas flow	793 m <sup>3</sup> /min
Exhaust temperature	N/A
Max back pressure	15 kPa

**Air Intake System**

Max intake restriction	3 kPa
Combustion air flow	248 m <sup>3</sup> /min
Air flow required for radiator	3600 m <sup>3</sup> /min

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Fuel consumption @ 100% (Prime Power) Load	199.5 g/kWh	751 L/h
Fuel consumption @ 75% (Prime Power) Load	190.9 g/kWh	545 L/h
Fuel consumption @ 50% (Prime Power) Load	196 g/kWh	382 L/h

**Oil System**

Total oil capacity	500L
Oil consumption ratio based on fuel consumption data	$\leq 0.2\text{g/kW}\cdot\text{h}$
Oil sump capacity	440-500L

**Cooling System**

Coolant capacity	350L (engine only)
Max water temperature	103°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	4100kVA
Alternator Efficiency	96.9%

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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)	$\leq +20\%$
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	

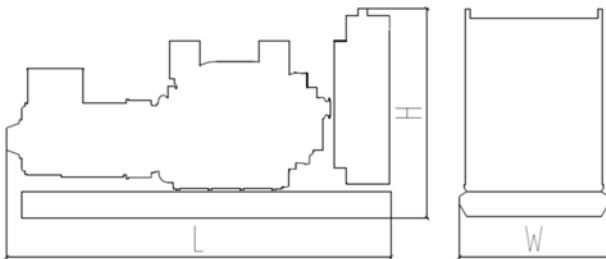
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## OPTIONS

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: 7500×2800×3000 mm
Weight: 26500 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**

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