

**MODEL: BF-BD3300**

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



|                             |                                       |                           |                                          |
|-----------------------------|---------------------------------------|---------------------------|------------------------------------------|
| <b>ESP</b><br>Standby Power | <b>3300 kVA</b>                       | <b>PRP</b><br>Prime Power | <b>3000 kVA</b>                          |
| <b>ENGINE</b>               | <b>Baudouin</b><br><b>16M55G2D3/5</b> | <b>ALTERNATOR</b>         | <b>LEROY SOMER</b><br><b>LSA 53.2 M9</b> |

## GENERAL FEATURES

Engine: Baudouin 16M55G2D3/5

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<br>(COSΦ) | Standby<br>Amps | Standby Ratings<br>(kW / kVA) | Prime Ratings<br>(kW / kVA) |
|---------|----|-------|--------------|-----------------|-------------------------------|-----------------------------|
| 440/254 | 50 | 3     | 0.8          | 4330            | 2640/3300                     | 2400/3000                   |
| 415/240 | 50 | 3     | 0.8          | 4591            | 2640/3300                     | 2400/3000                   |
| 400/230 | 50 | 3     | 0.8          | 4763            | 2640/3300                     | 2400/3000                   |
| 380/220 | 50 | 3     | 0.8          | 5014            | 2640/3300                     | 2400/3000                   |

**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-BD3300****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

|                                   |                           |
|-----------------------------------|---------------------------|
| Manufacturer / Model              | Baudouin 16M55G2D3/5      |
| 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 | 2900KW                    |
| Governor type                     | ECU                       |

**Exhaust System**

|                     |                         |
|---------------------|-------------------------|
| Exhaust gas flow    | 636 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            | 194 m <sup>3</sup> /min  |
| Air flow required for radiator | 3000 m <sup>3</sup> /min |

**MODEL: BF-BD3300****400V | 1500rpm | 50Hz****Fuel System**

|                                            |            |        |
|--------------------------------------------|------------|--------|
| Fuel consumption @ 100% (Prime Power) Load | 192.3g/kWh | 583L/h |
| Fuel consumption @ 75% (Prime Power) Load  | 192.1g/kWh | 440L/h |
| Fuel consumption @ 50% (Prime Power) Load  | 202.1g/kWh | 316L/h |

**Oil System**

|                                                      |                                    |
|------------------------------------------------------|------------------------------------|
| Total oil capacity                                   | N/A                                |
| Oil consumption ratio based on fuel consumption data | $\leq 0.2\text{g/kW}\cdot\text{h}$ |
| Oil sump capacity                                    | 445-500L                           |

**Cooling System**

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



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## 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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