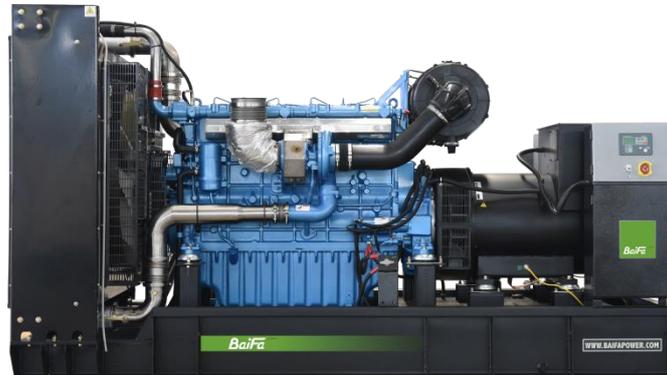


**MODEL: BF-BD500-60**

**440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>500kVA</b>	<b>PRP</b> Prime Power	<b>455kVA</b>
<b>ENGINE</b>	<b>Baudouin</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>6M21G400/6</b>		<b>S4L1D-F41</b>

**GENERAL FEATURES**

Engine: Baudouin 6M21G400/6	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-BD500-60**

**440V | 1800rpm | 60Hz**

**GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	601	400kW/500kVA	364kW/455kVA
460/266	60	3	0.8	628	400kW/500kVA	364kW/455kVA
440/254	60	3	0.8	656	400kW/500kVA	364kW/455kVA
416/240	60	3	0.8	694	400kW/500kVA	364kW/455kVA

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-BD500-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Baudouin 6M21G400/6
Air intake system	Turbocharged and Aftercooled
Fuel system	High Pressure Common Rail
Cylinder arrangement	6 in line
Displacement	12.54L
Bore and stroke	127 × 165 mm
Compression ratio	16
Rated speed	1800rpm
Max. Standby power at rated speed	460kW
Governor type	ECU

**Exhaust System**

Exhaust gas flow	104.9 m <sup>3</sup> /min
Exhaust temperature	580°C
Max back pressure	12kPa

**Air Intake System**

Max intake restriction	7kPa
Combustion air flow	32 m <sup>3</sup> /min
Air flow required for radiator	527 m <sup>3</sup> /min

**MODEL: BF-BD500-60****440V | 1800rpm | 60Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	201.6g/kWh	99L/h
Fuel consumption @ 75% (Prime Power) Load	198.1g/kWh	74L/h
Fuel consumption @ 50% (Prime Power) Load	200.8g/kWh	53L/h

**Oil System**

Total oil capacity	32L
Oil sump capacity	27-30L
Oil fuel consumption ratio based on engine fuel consumption data	≤ 0.2%

**Cooling System**

Coolant capacity	45L
Max water temperature	105°C

**MODEL: BF-BD500-60****440V | 1800rpm | 60Hz****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	500kVA
Alternator Efficiency	93.2%

**MODEL: BF-BD500-60****440V | 1800rpm | 60Hz****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	MCCB

**MODEL: BF-BD500-60**

**440V | 1800rpm | 60Hz**

**OPTIONS**

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

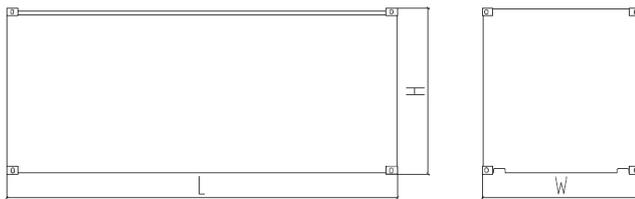
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 2950×1110×1730 mm

Weight: 3080 kg



**Soundproof Type**

Overall Dimensions: 4230×1460×2150 mm

Weight: 4430 kg

*Specifications are subject to change without notice.*

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Comprehensive Solutions For  
**POWER GENERATION**

