

MODEL: BF-BD140

400V | 1500rpm | 50Hz



ESP Standby Power	137.5 kVA	PRP Prime Power	125 kVA
ENGINE	Baudouin 6M11G150/5	ALTERNATOR	LEROY SOMER TAL-A44-E

GENERAL FEATURES

Engine: Baudouin 6M11G150/5

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-BD140****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	180	110kW/137.5kVA	100kW/125kVA
415/240	50	3	0.8	191	110kW/137.5kVA	100kW/125kVA
400/230	50	3	0.8	198	110kW/137.5kVA	100kW/125kVA
380/220	50	3	0.8	209	110kW/137.5kVA	100kW/125kVA

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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ENGINE SPECIFICATION

Manufacturer / Model	Baudouin 6M11G150/5
Air intake system	Turbo, intercooling
Fuel system	Mechanical pump
Cylinder arrangement	6 cylinders in line
Displacement	6.75 L
Bore and stroke	105×130 mm
Compression ratio	18:1
Rated speed	1500rpm
Max. Standby power at rated speed	140KW
Governor type	Electronic

Exhaust System

Exhaust gas flow	23.65 m ³ /min
Exhaust temperature	550°C
Max back pressure	6 kPa

Air Intake System

Max intake restriction	6 kPa
Combustion air flow	8.9 m ³ /min
Air flow required for radiator	304.5 m ³ /min

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Fuel consumption @ 100% (Prime Power) Load	198.5 g/kWh	27L/h
Fuel consumption @ 75% (Prime Power) Load	201.4 g/kWh	20L/h
Fuel consumption @ 50% (Prime Power) Load	207.2 g/kWh	14L/h

Oil System

Total oil capacity	19L
Oil consumption ratio based on fuel consumption data	$\leq 0.2\%$
Oil sump capacity	15-17L

Cooling System

Coolant capacity	20L
Max water temperature	105°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	125kVA
Alternator Efficiency	89.4%

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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)	$\leq +25\%$
Transient voltage deviation (sudden power increase)	$\leq -20\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
Voltage recovery time (sudden power increase)	$\leq 6S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 1.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
Transient frequency deviation (sudden power increase)	$\leq -10\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
Frequency recovery time (sudden power increase)	$\leq 5S$

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

Base fuel tank

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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		

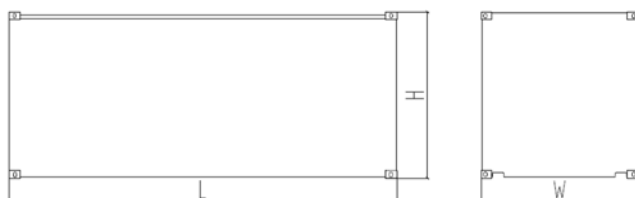
DIMENSIONS & WEIGHT



Standard Configuration (open type with base fuel tank)

Overall Dimensions: 2440×830×1410 mm

Weight: 1430 kg



Soundproof Type

Overall Dimensions: 3230×1170×1800 mm

Weight: 2130 kg

Specifications are subject to change without notice.

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