

MODEL: BF16

400V | 1500rpm | 50Hz



ESP Standby Power	16.5 kVA	PRP Prime Power	15 kVA
ENGINE	FAW	ALTERNATOR	LEROY SOMER
	4DW81-23D		TAL-A40-D

GENERAL FEATURES

Engine: FAW 4DW81-23D

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 (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	22	13.2/16.5	12/15
415/240	50	3	0.8	23	13.2/16.5	12/15
400/230	50	3	0.8	24	13.2/16.5	12/15
380/220	50	3	0.8	25	13.2/16.5	12/15

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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Manufacturer / Model	FAW 4DW81-23D	
Air intake system	Natural aspiration	
Fuel system	Direct injection	
Cylinder arrangement	4 in line	
Displacement	2.27L	
Bore and stroke	85×100 (mm)	
Compression ratio	17:1	
Rated speed	1500rpm	
Max. Standby power at rated speed	19KW	
Governor type	Mechanical	

Exhaust System

Exhaust gas flow	4.2m ³ /min	
Exhaust temperature	550°C	

Air Intake System

Combustion air flow	1.4m ³ /min	
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Fuel System

Fuel consumption @ 100% (Prime Power) Load	240g/kWh	4.5L/h
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Total Oil Capacity: 7.8L

Oil Consumption: 0.05L/h

Cooling System

Cooling mode: Water cooling

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 $\leq 1000\text{m}$

Exciter Type Brushless exciting

Insulation Class/Temperature Rise H/H

Telephone Influence Factor (TIF) < 50 THF $< 2\%$

Alternator Capacity 15kVA

Alternator Efficiency 82.2%

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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

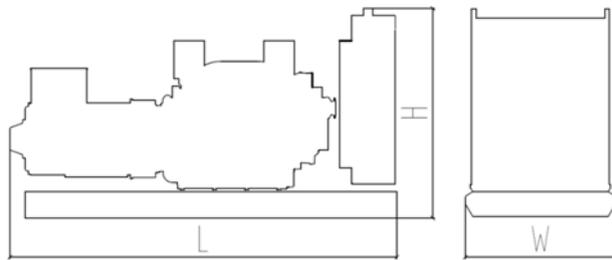
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OPTIONS

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

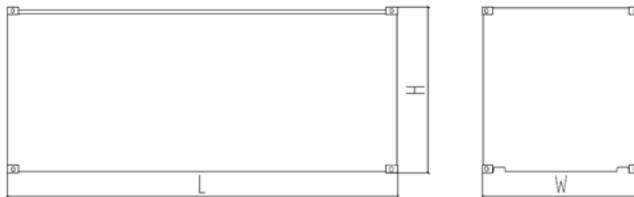
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 1500×760×1050 mm

Weight: 500 kg



Soundproof Type

Overall Dimensions: 1910×880×1450 mm

Weight: 1050 kg

Specifications are subject to change without notice.

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