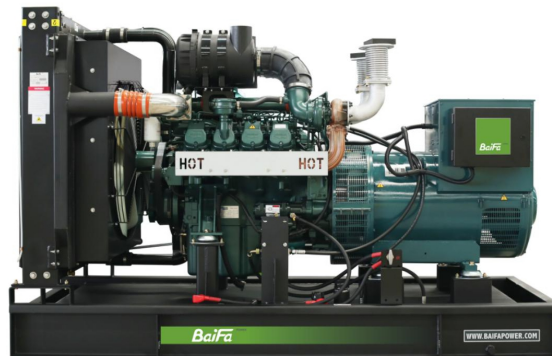


**MODEL: BF-DW450**
**400V | 1500rpm | 50Hz**


<b>ESP</b> Standby Power	<b>450 kVA</b>	<b>PRP</b> Prime Power	<b>410 kVA</b>
<b>ENGINE</b>	<b>Doosan</b> <b>DP158LC</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>S4L1D-F41</b>

## GENERAL FEATURES

Engine: Doosan DP158LC

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-DW450

400V | 1500rpm | 50Hz

## GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	590	360kW/450kVA	328kW/410kVA
415/240	50	3	0.8	626	360kW/450kVA	328kW/410kVA
400/230	50	3	0.8	650	360kW/450kVA	328kW/410kVA
380/220	50	3	0.8	684	360kW/450kVA	328kW/410kVA

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.

Comprehensive Solutions For

**POWER GENERATION**

**MODEL: BF-DW450****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Doosan DP158LC
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Air intake system	Turbo, Air/Air cooling
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Fuel system	P type fuel pump
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Cylinder arrangement	8 in V
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Displacement	14.618L
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Bore and stroke	128×142 mm
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Compression ratio	15:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	449kW
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Governor type	Electronic
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**Exhaust System**

Exhaust gas flow	88 m <sup>3</sup> /min
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Exhaust temperature	529°C
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Max back pressure	5.9kPa
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**Air Intake System**

Max intake restriction	6.2kPa
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Combustion air flow	30.1 m <sup>3</sup> /min
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Air flow required for radiator	700 m <sup>3</sup> /min
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**MODEL: BF-DW450**

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

#### Fuel System

Fuel consumption @ 100% (Prime Power) Load	90 L/h
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Fuel consumption @ 75% (Prime Power) Load	66 L/h
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Fuel consumption @ 50% (Prime Power) Load	44 L/h
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#### Oil System

Total oil capacity	22L
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Oil sump capacity	13-22L
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#### Cooling System

Coolant capacity	79L
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Max water temperature	103°C
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**MODEL: BF-DW450****400V | 1500rpm | 50Hz**

## 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	415kVA
Alternator Efficiency	93.2%

**MODEL: BF-DW450****400V | 1500rpm | 50Hz****GENERATING SET DATA**

Related range of voltage setting	$\geq \pm 5\%$
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Steady-state voltage deviation	$\leq \pm 1\%$
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Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
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Transient voltage deviation (sudden power increase)	$\leq -20\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
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Voltage recovery time (sudden power increase)	$\leq 6S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 1.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
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Transient frequency deviation (sudden power increase)	$\leq -10\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
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Frequency recovery time (sudden power increase)	$\leq 5S$
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**STANDARD FEATURES**

Standard auto control system	Exhaust system (including until muffler)	Documents
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Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
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**MODEL: BF-DW450****400V | 1500rpm | 50Hz****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: 3070×1390×1690 mm

Weight: 3150 kg

**Standard Configuration (with base fuel tank)**

Overall Dimensions: 3070×1390×1700 mm

Weight: 3300 kg

**Soundproof Type**

Overall Dimensions: 3890×1560×2150 mm

Weight: 4750 kg

*Specifications are subject to change without notice.***BAIFA POWER (WUXI) LTD.****WEBSITE: [WWW.BAIFAPOWER.COM](http://WWW.BAIFAPOWER.COM)****EMAIL: [MARKETING@BAIFAPOWER.COM](mailto:MARKETING@BAIFAPOWER.COM)****TEL: +86-510-85342633**

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