

**MODEL: BF-DW450-60**

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



<b>ESP</b> Standby Power	<b>550kVA</b>	<b>PRP</b> Prime Power	<b>500kVA</b>
<b>ENGINE</b>	<b>Doosan</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>DP158LC</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

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### GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	662	440kW/550kVA	400kW/500kVA
460/266	60	3	0.8	690	440kW/550kVA	400kW/500kVA
440/254	60	3	0.8	722	440kW/550kVA	400kW/500kVA
416/240	60	3	0.8	763	440kW/550kVA	400kW/500kVA

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-DW450-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Doosan DP158LC
Air intake system	Turbo, Air/Air cooling
Fuel system	P type fuel pump
Cylinder arrangement	8 in V
Displacement	14.618L
Bore and stroke	128×142 mm
Compression ratio	15
Rated speed	1800rpm
Max. Standby power at rated speed	513kW
Governor type	Electronic

**Exhaust System**

Exhaust gas flow	101 m <sup>3</sup> /min
Exhaust temperature	543°C
Max back pressure	5.9kPa

**Air Intake System**

Max intake restriction	6.2kPa
Combustion air flow	34.5 m <sup>3</sup> /min
Air flow required for radiator	850 m <sup>3</sup> /min

**MODEL: BF-DW450-60****440V | 1800rpm | 60Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load 107 L/h

Fuel consumption @ 75% (Prime Power) Load 80 L/h

Fuel consumption @ 50% (Prime Power) Load 55 L/h

**Oil System**

Total oil capacity 22L

Oil sump capacity 13-22L

**Cooling System**

Coolant capacity 79L

Max water temperature 103°C

**MODEL: BF-DW450-60****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%

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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

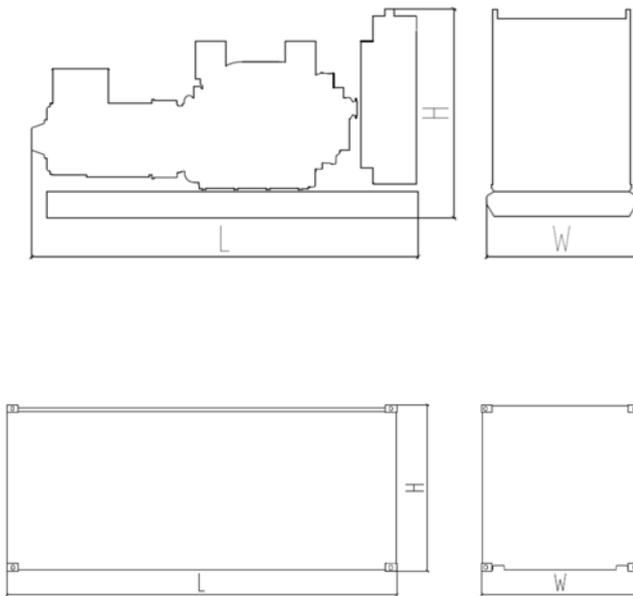
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**OPTIONS**

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: 3070×1390×1690 mm
Weight: 3150kg
Soundproof Type
Overall Dimensions: 3890×1560×2150 mm
Weight: 4750kg

*Specifications are subject to change without notice.*

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**POWER GENERATION**

