

**MODEL: BF-DW688**

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



<b>ESP</b> Standby Power	<b>688 kVA</b>	<b>PRP</b> Prime Power	<b>625 kVA</b>
<b>ENGINE</b>	<b>Doosan</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>DP180LB</b>		<b>S5L1D-E41</b>

**GENERAL FEATURES**

Engine: Doosan DP180LB

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	902	550kW/688kVA	500kW/625kVA
415/240	50	3	0.8	956	550kW/688kVA	500kW/625kVA
400/230	50	3	0.8	992	550kW/688kVA	500kW/625kVA
380/220	50	3	0.8	1045	550kW/688kVA	500kW/625kVA

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-DW688****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Doosan DP180LB
Air intake system	Turbo, Air/Air cooling
Fuel system	P type fuel pump
Cylinder arrangement	10 in V
Displacement	18.273L
Bore and stroke	128×142 mm
Compression ratio	15:1
Rated speed	1500rpm
Max. Standby power at rated speed	612kW
Governor type	Electronic

**Exhaust System**

Exhaust gas flow	118 m <sup>3</sup> /min
Exhaust temperature	587°C
Max back pressure	5.9kPa

**Air Intake System**

Max intake restriction	6.23kPa
Combustion air flow	36 m <sup>3</sup> /min
Air flow required for radiator	700 m <sup>3</sup> /min

**MODEL: BF-DW688****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load 136.4 L/h

Fuel consumption @ 75% (Prime Power) Load 103.8 L/h

Fuel consumption @ 50% (Prime Power) Load 71.2 L/h

**Oil System**

Total oil capacity 34L

Oil sump capacity 23-34L

**Cooling System**

Coolant capacity 91L

Max water temperature 103°C

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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	625kVA
Alternator Efficiency	94.8%

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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

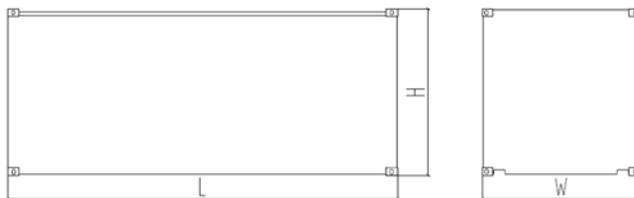
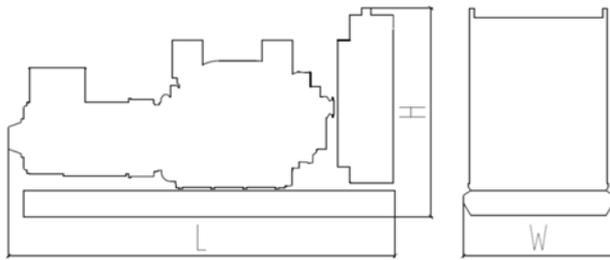
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**OPTIONS**

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**



<b>Standard Configuration (open type)</b>
Overall Dimensions: 3400×1390×1820 mm
Weight: 4100 kg
<b>Soundproof Type</b>
Overall Dimensions: 5030×1660×2250 mm
Weight: 5600 kg

*Specifications are subject to change without notice.*

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