

MODEL: BF-DW700

400V | 1500rpm | 50Hz



ESP Standby Power	702 kVA	PRP Prime Power	638 kVA
ENGINE	Doosan DP180LB	ALTERNATOR	STAMFORD S5L1D-F41

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	920	561kW/702kVA	510kW/638kVA
415/240	50	3	0.8	976	561kW/702kVA	510kW/638kVA
400/230	50	3	0.8	1012	561kW/702kVA	510kW/638kVA
380/220	50	3	0.8	1065	561kW/702kVA	510kW/638kVA

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-DW700****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 ³ /min
Exhaust temperature	587°C
Max back pressure	5.9kPa

Air Intake System

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

**MODEL: BF-DW700****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	136.4 L/h
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Fuel consumption @ 75% (Prime Power) Load	103.8 L/h
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Fuel consumption @ 50% (Prime Power) Load	71.2 L/h
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Oil System

Total oil capacity	34L
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Oil sump capacity	23-34L
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Cooling System

Coolant capacity	91L
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Max water temperature	103°C
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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	670kVA
Alternator Efficiency	95.0%



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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

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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		

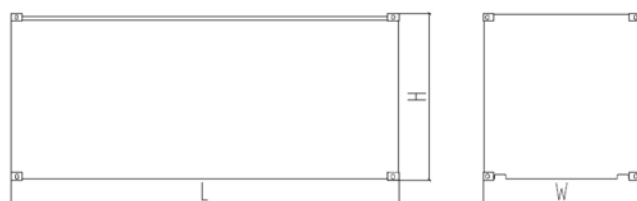
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 3450×1390×1820 mm

Weight: 4200 kg



Soundproof Type

Overall Dimensions: 5030×1660×2250 mm

Weight: 5700 kg

Specifications are subject to change without notice.

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