

MODEL: BF-DW500

400V | 1500rpm | 50Hz



ESP Standby Power	500 kVA	PRP Prime Power	450 kVA
ENGINE	Doosan	ALTERNATOR	STAMFORD
	DP158LC		S4L1D-G41

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)
440/254	50	3	0.8	656	400kW/500kVA	360kW/450kVA
415/240	50	3	0.8	696	400kW/500kVA	360kW/450kVA
400/230	50	3	0.8	722	400kW/500kVA	360kW/450kVA
380/220	50	3	0.8	760	400kW/500kVA	360kW/450kVA

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	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 ³ /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 ³ /min
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Air flow required for radiator	700 m ³ /min
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Comprehensive Solutions For

POWER GENERATION



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Fuel System

Fuel consumption @ 100% (Prime Power) Load	99.6 L/h
Fuel consumption @ 75% (Prime Power) Load	72.9 L/h
Fuel consumption @ 50% (Prime Power) Load	48.9 L/h

Oil System

Total oil capacity	22L
Oil sump capacity	13-22L

Cooling System

Coolant capacity	79L
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	450kVA
Alternator Efficiency	93.3%

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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

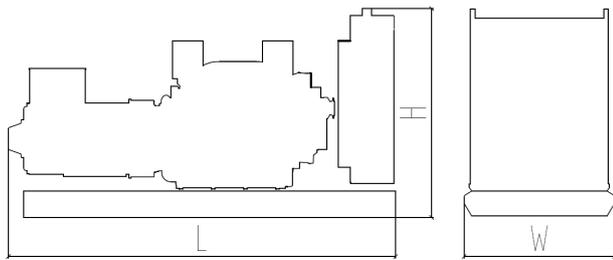
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OPTIONS

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: 3120×1390×1690 mm

Weight: 3250 kg

Standard Configuration (with base fuel tank)

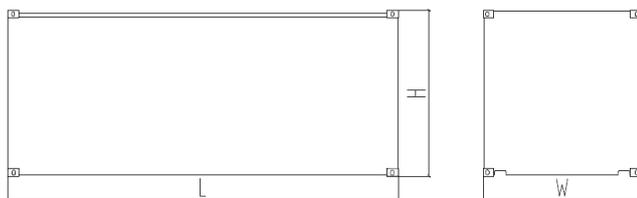
Overall Dimensions: 3120×1390×1700 mm

Weight: 3400 kg

Soundproof Type

Overall Dimensions: 3890×1560×2150 mm

Weight: 4850 kg



Specifications are subject to change without notice.

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