

MODEL: BF-DW220-60

440V | 1800rpm | 60Hz



ESP Standby Power	250kVA	PRP Prime Power	228kVA
ENGINE	Doosan P086TI	ALTERNATOR	STAMFORD UCI274H1

GENERAL FEATURES

Engine: Doosan P086TI

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-DW220-60****440V | 1800rpm | 60Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	301	200kW/250kVA	182kW/228kVA
460/266	60	3	0.8	314	200kW/250kVA	182kW/228kVA
440/254	60	3	0.8	328	200kW/250kVA	182kW/228kVA
416/240	60	3	0.8	347	200kW/250kVA	182kW/228kVA

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-DW220-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Doosan P086T1
Air intake system	Turbo, Air/Air cooling
Fuel system	P type fuel pump
Cylinder arrangement	6 in line
Displacement	8.071L
Bore and stroke	111×139 mm
Compression ratio	16.4
Rated speed	1800rpm
Max. Standby power at rated speed	223kW
Governor type	Electronic

Exhaust System

Exhaust gas flow	38.8 m ³ /min
Exhaust temperature	530°C
Max back pressure	5.8kPa

Air Intake System

Max intake restriction	6.1kPa
Combustion air flow	16.8 m ³ /min
Air flow required for radiator	534 m ³ /min

**MODEL: BF-DW220-60****440V | 1800rpm | 60Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	50.6 L/h
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Fuel consumption @ 75% (Prime Power) Load	37.7 L/h
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Fuel consumption @ 50% (Prime Power) Load	25.1 L/h
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Oil System

Total oil capacity	18L
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Oil sump capacity	12-15.5L
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Cooling System

Coolant capacity	48.5L
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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	245kVA
Alternator Efficiency	93.2%

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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	Base fuel tank

MCCB

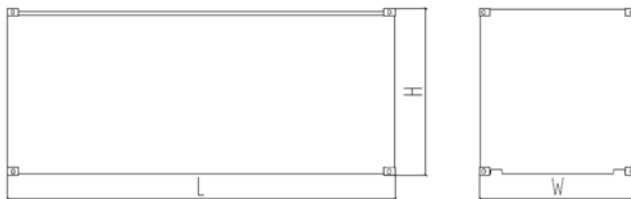
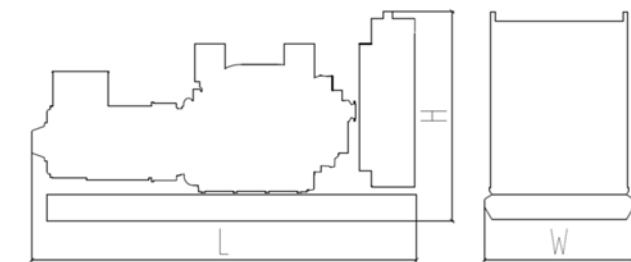
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OPTIONS

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: 2650×950×1750 mm

Weight: 2000kg

Soundproof Type

Overall Dimensions: 3590×1250×2050 mm

Weight: 2800kg

Specifications are subject to change without notice.

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