

MODEL: BF-V220

400V | 1500rpm | 50Hz



ESP

Standby Power

220 kVA

PRP

Prime Power

200 kVA

ENGINE

VOLVO

TAD840GE-B

ALTERNATOR

STAMFORD

UCI274H1

GENERAL FEATURES

Engine: VOLVO TAD840GE-B

Alternator: single bearing, IP23, insulation class H

55°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	289	176/220	160/200
415/240	50	3	0.8	306	176/220	160/200
400/230	50	3	0.8	318	176/220	160/200
380/220	50	3	0.8	334	176/220	160/200

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv ISO8528) ; 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-V220****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	VOLVO/TAD840GE-B
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Air intake system	Turbocharged, Air/Air inter cooling
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Fuel system	Elec. Injection, Common Rail
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Cylinder arrangement	6 in line
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Displacement	7.7L
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Bore and stroke	110×135mm
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Compression ratio	17.5
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Rated speed	1500rpm
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Max. Standby power at rated speed	194kW
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Governor type	EMS2
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Exhaust System

Exhaust gas flow	37m ³ /min
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Exhaust temperature	481°C
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Max back pressure	10kPa
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Air Intake System

Max intake restriction	5kPa
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Combustion air flow	15.1m ³ /min
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Air flow required for radiator	285m ³ /min
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**MODEL: BF-V220****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	205g/kWh	44L/h
Fuel consumption @ 75% (Prime Power) Load	202g/kWh	33L/h
Fuel consumption @ 50% (Prime Power) Load	204g/kWh	23L/h

Oil System

Total oil capacity	27L
Oil consumption	0.02L/h
Oil sump capacity	16~25L

Cooling System

Coolant capacity	41L
Max water temperature	107°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	200kVA
Alternator Efficiency	93.3%

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GENERATING SET DATA

Related range of voltage setting	$\geq \pm 5\%$
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Steady-state voltage deviation	$\leq \pm 1\%$
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Transient voltage deviation (100 % sudden power decrease)	$\leq +20\%$
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Transient voltage deviation (sudden power increase)	$\leq -15\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
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Voltage recovery time (sudden power increase)	$\leq 4S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 0.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
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Transient frequency deviation (sudden power increase)	$\leq -7\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
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Frequency recovery time (sudden power increase)	$\leq 3S$
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STANDARD FEATURES

Standard auto control system	Exhaust system (including until muffler)	Documents
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Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	Special coolant
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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

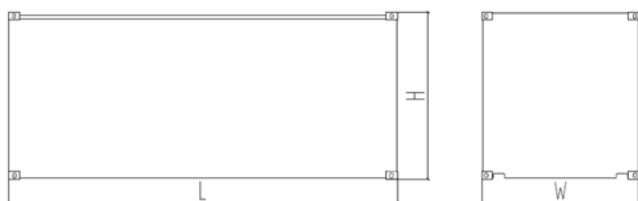
DIMENSIONS & WEIGHT



Standard Configuration (open type with base fuel tank)

Overall Dimensions: 2700×1050×1610 mm

Weight: 2000 kg



Soundproof Type

Overall Dimensions: 3590×1310×2050 mm

Weight: 2900 kg

Specifications are subject to change without notice.

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