

**MODEL: BF-V825****400V | 1500rpm | 50Hz****ESP**

Standby Power

825 kVA**PRP**

Prime Power

750 kVA**ENGINE****VOLVO****TWD1744GE****ALTERNATOR****STAMFORD****S5L1D-H4**

GENERAL FEATURES

Engine: VOLVO TWD1744GE

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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Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	1083	660/825	600/750
415/240	50	3	0.8	1148	660/825	600/750
400/230	50	3	0.8	1191	660/825	600/750
380/220	50	3	0.8	1253	660/825	600/750

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.

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ENGINE SPECIFICATION

Manufacturer / Model	VOLVO/TWD1744GE
Air intake system	Turbocharged, Water/Air inter cooling
Fuel system	Elec. Injection, Elec. Fuel System
Cylinder arrangement	6 in line
Displacement	17.26L
Bore and stroke	149x165
Compression ratio	16.5
Rated speed	1500rpm
Max. Standby power at rated speed	710kW
Governor type	ECM4

Exhaust System

Exhaust gas flow	N/A
Exhaust temperature	N/A
Max back pressure	10kPa

Air Intake System

Max intake restriction	N/A
Combustion air flow	50.5m ³ /min
Air flow required for radiator	666m ³ /min

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Fuel consumption @ 100% (Prime Power) Load	194 g/kWh	150L/h
Fuel consumption @ 75% (Prime Power) Load	194 g/kWh	113L/h
Fuel consumption @ 50% (Prime Power) Load	197 g/kWh	78L/h

Oil System

Total oil capacity	52L
Oil consumption	N/A
Oil sump capacity	32~47L

Cooling System

Coolant capacity	113L
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	750kVA
Alternator Efficiency	94.6%

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

STANDARD FEATURES

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

MCCB

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OPTIONS

Daily fuel tank	Rainproof type	Remote control panel
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Alternator heater	Soundproof type	Paralleling system
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Spare parts	Trailer type	Switch box
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Automatic transfer switch		
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DIMENSIONS & WEIGHT

Standard Configuration (open type)

Overall Dimensions: 3600x1400x2100 mm

Weight: 4200 kg



Soundproof Type

Overall Dimensions: 5030x1660x2550 mm

Weight: 6200 kg



Specifications are subject to change without notice.

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POWER GENERATION

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