

MODEL: BF-V720-III

400V | 1500rpm | 50Hz



ESP

Standby Power

700 kVA

PRP

Prime Power

630 kVA

ENGINE

VOLVO

TWD1653GE

ALTERNATOR

STAMFORD

HCI544FS1

GENERAL FEATURES

Engine: VOLVO TWD1653GE, certified for China Stage III emission standard

55°C radiator, fans are driven by belt, with safety guard

Vibration damper

24V charging alternator

Lead-acid batteries, rack and cables

Alternator: single bearing, IP23, insulation class H

Dry type air filter, fuel filter & oil filter

Standard control panel

Exhaust bellows, elbows, flange & muffler

User manual

**MODEL: BF-V720-III****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	919	560/700	504/630
415/240	50	3	0.8	974	560/700	504/630
400/230	50	3	0.8	1010	560/700	504/630
380/220	50	3	0.8	1064	560/700	504/630

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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ENGINE SPECIFICATION

Manufacturer / Model	VOLVO TWD1653GE
Air intake system	Turbo, Water/Air Cooling
Fuel system	Common-rail fuel injection system
Cylinder arrangement	6 in line
Displacement	16.12L
Bore and stroke	144*165 (mm)
Compression ratio	16.5
Rated speed	1500rpm
Max. Standby power at rated speed	604KW/821HP (with fan)
Governor type	EMS2.2

Exhaust System

Exhaust gas flow	107 m ³ /min
Exhaust temperature	470 °C
Max back pressure	10kPa

Air Intake System

Max intake restriction	3kPa
Combustion air flow	44 m ³ /min
Air flow required for radiator	600 m ³ /min

**MODEL: BF-V720-III****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	208 g/kWh	134L/h
Fuel consumption @ 75% (Prime Power) Load	211 g/kWh	102L/h
Fuel consumption @ 50% (Prime Power) Load	209 g/kWh	69L/h

Oil System

Total oil capacity	48L
Oil consumption	0.05L/h
Oil sump capacity	32~42L

Cooling System

Coolant capacity	166L
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	625kVA
Alternator Efficiency	95.1%

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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)	$\leq +20\%$
Transient voltage deviation (sudden power increase)	$\leq -15\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
Voltage recovery time (sudden power increase)	$\leq 4S$
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)	$\leq 3S$
Frequency recovery time (sudden power increase)	$\leq 3S$

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
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

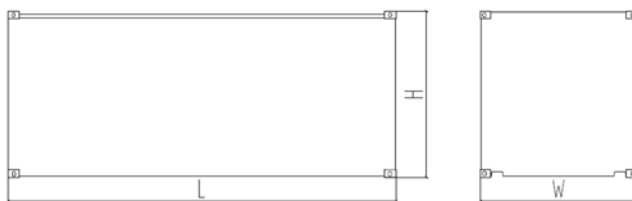
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 3500×1400×2100 mm

Weight: 4100 kg



Soundproof Type

Overall Dimensions: 5030×1660×2550 mm

Weight: 6100 kg

Specifications are subject to change without notice.

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