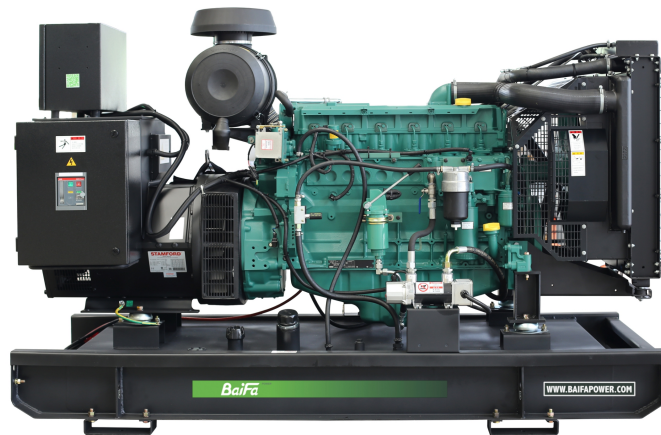


**MODEL: BF-V110-III**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>110 kVA</b>	<b>PRP</b> Prime Power	<b>100 kVA</b>
<b>ENGINE</b>	<b>VOLVO</b> <b>TAD551GE</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>UC1274C1</b>

## GENERAL FEATURES

Engine: VOLVO TAD551GE, certified for China Stage III emission standard

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

MODEL: BF-V110-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	144	88/110	80/100
415/240	50	3	0.8	153	88/110	80/100
400/230	50	3	0.8	159	88/110	80/100
380/220	50	3	0.8	167	88/110	80/100

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.

Comprehensive Solutions For

**POWER GENERATION**

**MODEL: BF-V110-III****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	VOLVO TAD551GE
Air intake system	Turbo, Air/Air Cooling
Fuel system	Common-rail fuel injection system
Cylinder arrangement	4 in line
Displacement	4.76L
Bore and stroke	108×130 (mm)
Compression ratio	18.0
Rated speed	1500rpm
Max. Standby power at rated speed	98KW/133HP (with fan)
Governor type	EMS2.2

**Exhaust System**

Exhaust gas flow	21.4 m <sup>3</sup> /min
Exhaust temperature	619 °C
Max back pressure	7kPa

**Air Intake System**

Max intake restriction	5kPa
Combustion air flow	8.5 m <sup>3</sup> /min
Air flow required for radiator	120 m <sup>3</sup> /min



**MODEL: BF-V110-III**

**400V | 1500rpm | 50Hz**

#### Fuel System

Fuel consumption @ 100% (Prime Power) Load	244 g/kWh	25.4 L/h
Fuel consumption @ 75% (Prime Power) Load	270 g/kWh	20.8 L/h
Fuel consumption @ 50% (Prime Power) Load	284 g/kWh	14.5 L/h

#### Oil System

Total oil capacity	21L
Oil consumption	0.03L/h
Oil sump capacity	15~19L

#### Cooling System

Coolant capacity	22L
Max water temperature	105°C



**MODEL: BF-V110-III****400V | 1500rpm | 50Hz**

## 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	100kVA
Alternator Efficiency	90.3%

**MODEL: BF-V110-III**
**400V | 1500rpm | 50Hz**

## 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
Base fuel tank	MCCB	

**MODEL: BF-V110-III****400V | 1500rpm | 50Hz****OPTIONS**

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

Spare parts

Trailer type

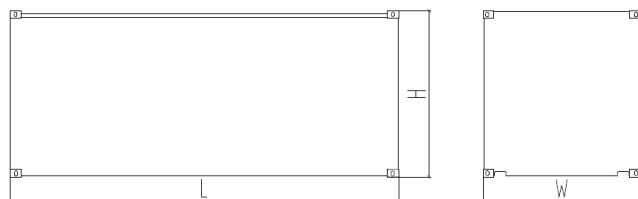
Switch box

Automatic transfer switch

**DIMENSIONS & WEIGHT****Standard Configuration (open type with base fuel tank)**

Overall Dimensions: 2200×950×1550 mm

Weight: 1350 kg

**Soundproof Type**

Overall Dimensions: 2810×1140×1830 mm

Weight: 1900 kg

*Specifications are subject to change without notice.***BAIFA POWER (WUXI) LTD.****WEBSITE: [WWW.BAIFAPOWER.COM](http://WWW.BAIFAPOWER.COM)****EMAIL: [MARKETING@BAIFAPOWER.COM](mailto:MARKETING@BAIFAPOWER.COM)****TEL: +86-510-85342633**

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