

**MODEL: BF-V145-III**
**400V | 1500rpm | 50Hz**


<b>ESP</b> Standby Power	<b>144 kVA</b>	<b>PRP</b> Prime Power	<b>130 kVA</b>
<b>ENGINE</b>	<b>VOLVO</b> <b>TAD750GE</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>UC1274E1</b>

## GENERAL FEATURES

Engine: VOLVO TAD750GE, 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

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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	189	115/144	104/130
415/240	50	3	0.8	200	115/144	104/130
400/230	50	3	0.8	207	115/144	104/130
380/220	50	3	0.8	218	115/144	104/130

**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-V145-III****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	VOLVO TAD750GE
Air intake system	Turbo, Air/Air Cooling
Fuel system	Common-rail fuel injection system
Cylinder arrangement	6 in line
Displacement	7.15L
Bore and stroke	108×130 (mm)
Compression ratio	18.0
Rated speed	1500rpm
Max. Standby power at rated speed	125KW/170HP (with fan)
Governor type	EMS2.2

**Exhaust System**

Exhaust gas flow	27 m <sup>3</sup> /min
Exhaust temperature	454 °C
Max back pressure	7kPa

**Air Intake System**

Max intake restriction	5kPa
Combustion air flow	9.8 m <sup>3</sup> /min
Air flow required for radiator	132 m <sup>3</sup> /min

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Fuel consumption @ 100% (Prime Power) Load	219 g/kWh	29.2 L/h
Fuel consumption @ 75% (Prime Power) Load	238 g/kWh	23.6 L/h
Fuel consumption @ 50% (Prime Power) Load	256 g/kWh	16.9 L/h

**Oil System**

Total oil capacity	23L
Oil consumption	0.05L/h
Oil sump capacity	16~20L

**Cooling System**

Coolant capacity	23.1L
Max water temperature	105°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	140kVA
Alternator Efficiency	91.7%

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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
Base fuel tank	MCCB	

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## OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

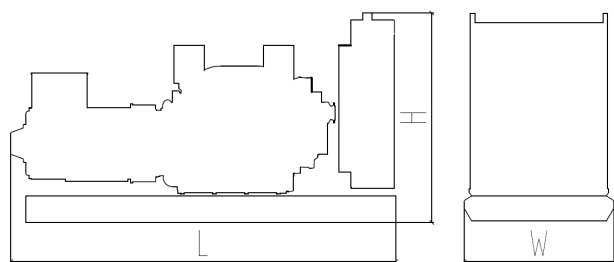
Spare parts

Trailer type

Switch box

Automatic transfer switch

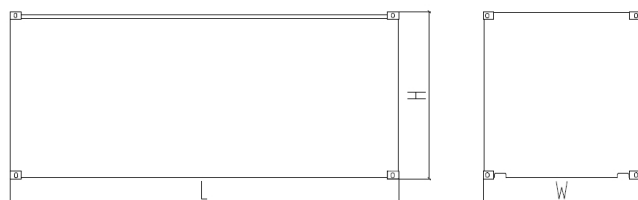
## DIMENSIONS & WEIGHT



Standard Configuration (open type with base fuel tank)

Overall Dimensions: 2530×1000×1600 mm

Weight: 1710 kg



Soundproof Type

Overall Dimensions: 3250×1170×1800 mm

Weight: 2350 kg

Specifications are subject to change without notice.

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