

MODEL: BF-V165

400V | 1500rpm | 50Hz



ESP

Standby Power

165 kVA

PRP

Prime Power

150 kVA

ENGINE

VOLVO

TAD731GE

ALTERNATOR

STAMFORD

UCI274F1

GENERAL FEATURES

Engine: VOLVO TAD731GE

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-V165****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	217	132/165	120/150
415/240	50	3	0.8	230	132/165	120/150
400/230	50	3	0.8	238	132/165	120/150
380/220	50	3	0.8	251	132/165	120/150

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-V165****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	VOLVO/TAD731GE
Air intake system	Turbocharged, Air/Air inter cooling
Fuel system	Directly Injection Fuel System, Bosch Pump
Cylinder arrangement	6 in line
Displacement	7.15L
Bore and stroke	108*130 (mm)
Compression ratio	18
Rated speed	1500rpm
Max. Standby power at rated speed	148KW/201HP (with fan)
Governor type	Heinzman Mechanical Governor

Exhaust System

Exhaust gas flow	30.2 m ³ / min
Exhaust temperature	540°C
Max back pressure	5 kPa

Air Intake System

Max intake restriction	3.5 kPa
Combustion air flow	10.65m ³ /min
Air flow required for radiator	138 m ³ /min

**MODEL: BF-V165****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	215 g/kWh	34.3L/h
Fuel consumption @ 75% (Prime Power) Load	216 g/kWh	26.0L/h
Fuel consumption @ 50% (Prime Power) Load	224 g/kWh	18.4L/h

Oil System

Total oil capacity	20L
Oil consumption	0.10L/h
Oil sump capacity	14~17L

Cooling System

Coolant capacity	24 L
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	160kVA
Alternator Efficiency	92.3%

**MODEL: BF-V165****400V | 1500rpm | 50Hz****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)	$\leq +25\%$
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Transient voltage deviation (sudden power increase)	$\leq -20\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
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Voltage recovery time (sudden power increase)	$\leq 6S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 1.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
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Transient frequency deviation (sudden power increase)	$\leq -10\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
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Frequency recovery time (sudden power increase)	$\leq 5S$
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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

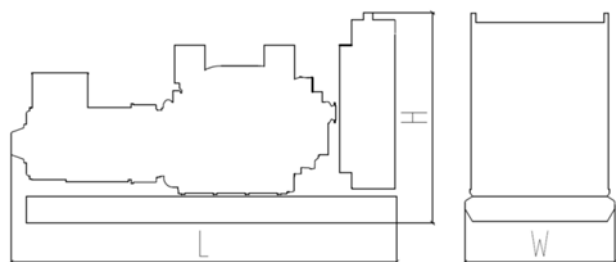
Spare parts

Trailer type

Switch box

Automatic transfer switch

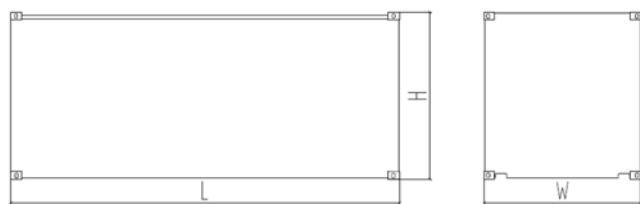
DIMENSIONS & WEIGHT



Standard Configuration (open type with base fuel tank)

Overall Dimensions: 2550×1000×1600 mm

Weight: 1760 kg



Soundproof Type

Overall Dimensions: 3250×1170×1800 mm

Weight: 2400 kg

Specifications are subject to change without notice.

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