

**MODEL: BF-V142**

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



**ESP**

Standby Power

**142 kVA**

**PRP**

Prime Power

**130 kVA**

**ENGINE**

**VOLVO**

**TAD532GE**

**ALTERNATOR**

**STAMFORD**

**UCI274E1**

## GENERAL FEATURES

Engine: VOLVO TAD532GE

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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## GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	187	114/142	104/130
415/240	50	3	0.8	198	114/142	104/130
400/230	50	3	0.8	206	114/142	104/130
380/220	50	3	0.8	217	114/142	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 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-V142****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	VOLVO/TAD532GE
Air intake system	Turbocharged, Air/Air inter cooling
Fuel system	Directly Injection Fuel System, Bosch Pump
Cylinder arrangement	4 in line
Displacement	4.76L
Bore and stroke	108*130 (mm)
Compression ratio	18
Rated speed	1500rpm
Max. Standby power at rated speed	125KW/170HP (with fan)
Governor type	EDC4

**Exhaust System**

Exhaust gas flow	23.2 m <sup>3</sup> / min
Exhaust temperature	532℃
Max back pressure	5 kPa

**Air Intake System**

Max intake restriction	3.5 kPa
Combustion air flow	8.03m <sup>3</sup> /min
Air flow required for radiator	150 m <sup>3</sup> /min

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Fuel consumption @ 100% (Prime Power) Load	214 g/kWh	29.9L/h
Fuel consumption @ 75% (Prime Power) Load	210 g/kWh	22.2L/h
Fuel consumption @ 50% (Prime Power) Load	213 g/kWh	15.4L/h

**Oil System**

Total oil capacity	13L
Oil consumption	0.08L/h
Oil sump capacity	9~11L

**Cooling System**

Coolant capacity	20 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	140kVA
Alternator Efficiency	91.7%

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## 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

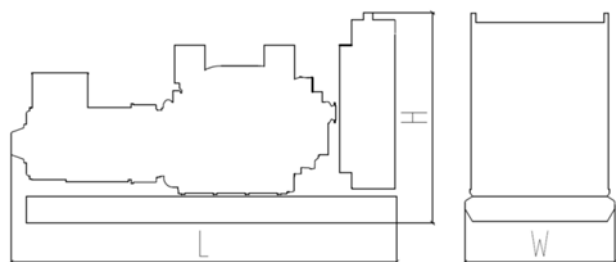
Spare parts

Trailer type

Switch box

Automatic transfer switch

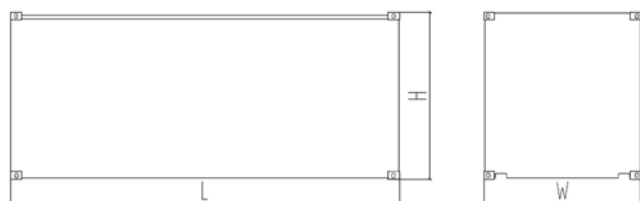
## DIMENSIONS & WEIGHT



**Standard Configuration (open type with base fuel tank)**

Overall Dimensions: 2250×950×1550 mm

Weight: 1400 kg



**Soundproof Type**

Overall Dimensions: 2810×1140×1830 mm

Weight: 2000 kg

*Specifications are subject to change without notice.*

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Comprehensive Solutions For  
**POWER GENERATION**