

**MODEL: BF-V142-60**

**440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>145kVA</b>	<b>PRP</b> Prime Power	<b>131kVA</b>
<b>ENGINE</b>	<b>Volvo</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>TAD532GE</b>		<b>UCI274D1</b>

**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 ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	174	116kW/145kVA	105kW/131kVA
460/266	60	3	0.8	182	116kW/145kVA	105kW/131kVA
440/254	60	3	0.8	190	116kW/145kVA	105kW/131kVA
416/240	60	3	0.8	201	116kW/145kVA	105kW/131kVA

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.

**MODEL: BF-V142-60****440V | 1800rpm | 60Hz****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	1800rpm
Max. Standby power at rated speed	126kW
Governor type	EDC4

**Exhaust System**

Exhaust gas flow	27.6 m <sup>3</sup> /min
Exhaust temperature	528°C
Max back pressure	7kPa

**Air Intake System**

Max intake restriction	3.5kPa
Combustion air flow	9.6 m <sup>3</sup> /min
Air flow required for radiator	156 m <sup>3</sup> /min

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**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	222g/kWh	32.7L/h
Fuel consumption @ 75% (Prime Power) Load	218g/kWh	24.5L/h
Fuel consumption @ 50% (Prime Power) Load	224g/kWh	17.5L/h

**Oil System**

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

**Cooling System**

Coolant capacity	21L
Max water temperature	105°C

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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	137.5kVA
Alternator Efficiency	90.8%

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Related range of voltage setting	$\geq \pm 5\%$
Steady-state voltage deviation	$\leq \pm 1\%$
Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
Transient voltage deviation (sudden power increase)	$\leq -20\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
Voltage recovery time (sudden power increase)	$\leq 6S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 1.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
Transient frequency deviation (sudden power increase)	$\leq -10\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
Frequency recovery time (sudden power increase)	$\leq 5S$

**STANDARD FEATURES**

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB

Base fuel tank

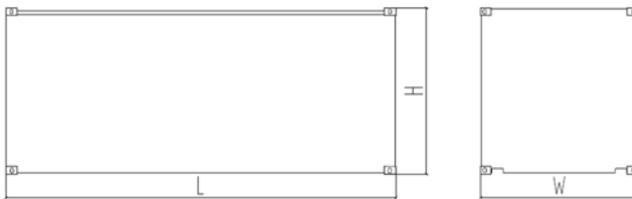
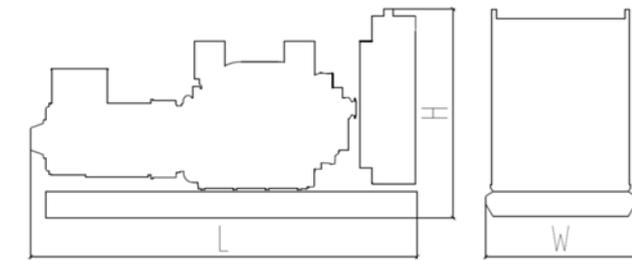
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**OPTIONS**

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: 2150×900×1550 mm
Weight: 1400 kg
Soundproof Type
Overall Dimensions: 2810×1140×1830 mm
Weight: 2000 kg

Specifications are subject to change without notice.

**BAIFA POWER (WUXI) LTD.**  
**WEBSITE: WWW.BAIFAPOWER.COM**  
**EMAIL: MARKETING@BAIFAPOWER.COM**  
**TEL: +86-510-85342633**

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**POWER GENERATION**

