

**MODEL: BF-V275**

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



<b>ESP</b> Standby Power	<b>275 kVA</b>	<b>PRP</b> Prime Power	<b>250 kVA</b>
<b>ENGINE</b>	<b>VOLVO</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>TAD841GE</b>		<b>UCDI274K1</b>

## GENERAL FEATURES

Engine: VOLVO TAD841GE

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-V275****400V | 1500rpm | 50Hz**

## GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	361	220/275	200/250
415/240	50	3	0.8	383	220/275	200/250
400/230	50	3	0.8	397	220/275	200/250
380/220	50	3	0.8	418	220/275	200/250

**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-V275****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	VOLVO/TAD841GE
----------------------	----------------

Air intake system	Turbocharged, Air/Air inter cooling
-------------------	-------------------------------------

Fuel system	Elec. Injection, Common Rail
-------------	------------------------------

Cylinder arrangement	6 in line
----------------------	-----------

Displacement	7.7L
--------------	------

Bore and stroke	110×135mm
-----------------	-----------

Compression ratio	17.5
-------------------	------

Rated speed	1500rpm
-------------	---------

Max. Standby power at rated speed	242kW
-----------------------------------	-------

Governor type	EMS2
---------------	------

**Exhaust System**

Exhaust gas flow	42 m <sup>3</sup> / min
------------------	-------------------------

Exhaust temperature	478°C
---------------------	-------

Max back pressure	10kPa
-------------------	-------

**Air Intake System**

Max intake restriction	5kPa
------------------------	------

Combustion air flow	16.7 m <sup>3</sup> /min
---------------------	--------------------------

Air flow required for radiator	294 m <sup>3</sup> /min
--------------------------------	-------------------------

**MODEL: BF-V275****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	198g/kWh	53 L/h
Fuel consumption @ 75% (Prime Power) Load	204g/kWh	41 L/h
Fuel consumption @ 50% (Prime Power) Load	214g/kWh	30 L/h

**Oil System**

Total oil capacity	27L
Oil consumption	0.02L/h
Oil sump capacity	16~25L

**Cooling System**

Coolant capacity	41L
Max water temperature	107°C

**MODEL: BF-V275****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	250kVA
Alternator Efficiency	92.7%

**MODEL: BF-V275****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-V275****400V | 1500rpm | 50Hz****OPTIONS**

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

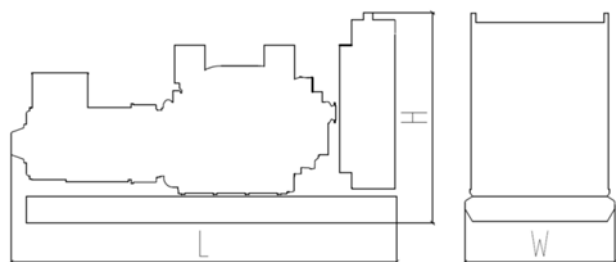
Paralleling system

Spare parts

Trailer type

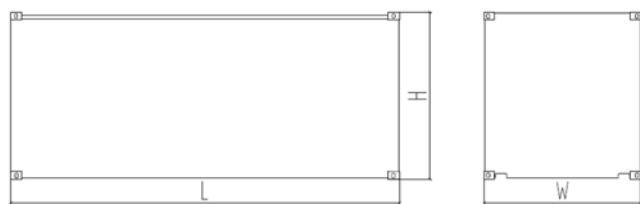
Switch box

Automatic transfer switch

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

Overall Dimensions: 2770×1050×1610 mm

Weight: 2100 kg

**Soundproof Type**

Overall Dimensions: 3590×1310×2050 mm

Weight: 3000 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**