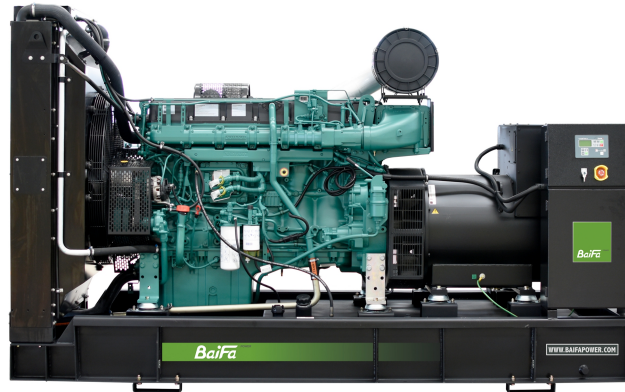


**MODEL: BF-V690**
**400V | 1500rpm | 50Hz**


<b>ESP</b> Standby Power	<b>688 kVA</b>	<b>PRP</b> Prime Power	<b>625 kVA</b>
<b>ENGINE</b>	<b>VOLVO</b> <b>TWD1643GE</b>	<b>ALTERNATOR</b>	<b>MECC ALTE</b> <b>ECO 40-1.5L</b>

## GENERAL FEATURES

Engine: VOLVO TWD1643GE	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-V690****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	902	550/688	500/625
415/240	50	3	0.8	956	550/688	500/625
400/230	50	3	0.8	992	550/688	500/625
380/220	50	3	0.8	1044	550/688	500/625

**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-V690****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	VOLVO/TWD1643GE
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Air intake system	Turbocharged, Water/Air inter cooling
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Fuel system	Elec. Injection, Elec. Fuel System
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Cylinder arrangement	6 in line
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Displacement	16.12L
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Bore and stroke	144*165 (mm)
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Compression ratio	16.5
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Rated speed	1500rpm
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Max. Standby power at rated speed	596KW/811HP (with fan)
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Governor type	EMS2
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**Exhaust System**

Exhaust gas flow	111.8 m <sup>3</sup> / min
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Exhaust temperature	463°C
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Max back pressure	10 kPa
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**Air Intake System**

Max intake restriction	5 kPa
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Combustion air flow	47 m <sup>3</sup> /min
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Air flow required for radiator	780 m <sup>3</sup> /min
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**MODEL: BF-V690****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	199 g/kWh	123 L/h
Fuel consumption @ 75% (Prime Power) Load	196 g/kWh	91 L/h
Fuel consumption @ 50% (Prime Power) Load	196 g/kWh	61 L/h

**Oil System**

Total oil capacity	48L
Oil consumption	0.11L/h
Oil sump capacity	32~42L

**Cooling System**

Coolant capacity	166 L
Max water temperature	103°C

**MODEL: BF-V690****400V | 1500rpm | 50Hz****ALTERNATOR SPECIFICATION****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	625kVA
Alternator Efficiency	95.0%

**MODEL: BF-V690****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)	$\leq +20\%$
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Transient voltage deviation (sudden power increase)	$\leq -15\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
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Voltage recovery time (sudden power increase)	$\leq 4S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 0.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
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Transient frequency deviation (sudden power increase)	$\leq -7\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
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Frequency recovery time (sudden power increase)	$\leq 3S$
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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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**MODEL: BF-V690****400V | 1500rpm | 50Hz****OPTIONS**

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

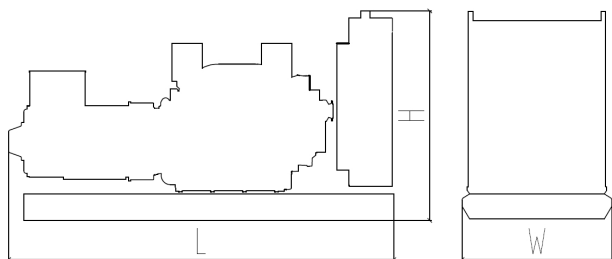
Paralleling system

Spare parts

Trailer type

Switch box

Automatic transfer switch

**DIMENSIONS & WEIGHT****Standard Configuration (open type)**

Overall Dimensions: 3350×1400×2050 mm

Weight: 4050 kg

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

Overall Dimensions: 3350×1400×2050 mm

Weight: 4350 kg

**Soundproof Type**

Overall Dimensions: 5030×1660×2550 mm

Weight: 6060 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**

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