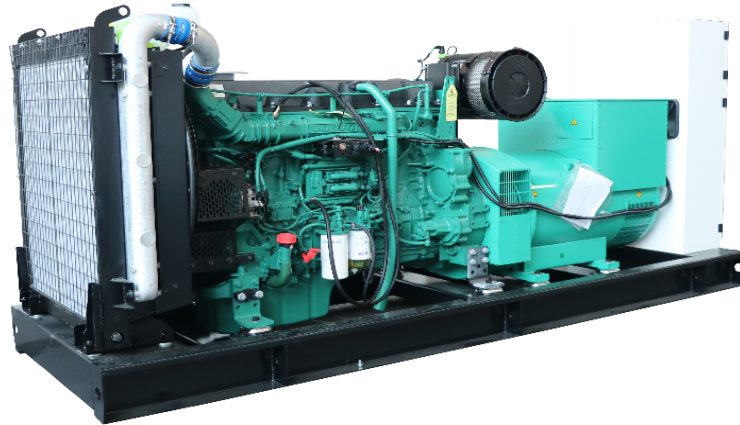


**MODEL: HC-450GF**

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



<b>ESP</b> Standby Power	<b>660 kVA</b>	<b>PRP</b> Prime Power	<b>600 kVA</b>
<b>ENGINE</b>	<b>VOLVO</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>TAD1642GE</b>		<b>S5L1D-E41</b>

## GENERAL FEATURES

Engine: VOLVO TAD1642GE

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: HC-450GF**

**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	866	528/660	480/600
415/240	50	3	0.8	918	528/660	480/600
400/230	50	3	0.8	953	528/660	480/600
380/220	50	3	0.8	1003	528/660	480/600

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: HC-450GF****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	VOLVO/TAD1642GE
Air intake system	Turbocharged, Air/Air inter cooling
Fuel system	Elec. Injection, Elec. Fuel System
Cylinder arrangement	6 in line
Displacement	16.12L
Bore and stroke	144*165 (mm)
Compression ratio	16.5
Rated speed	1500rpm
Max. Standby power at rated speed	554KW/753HP (with fan)
Governor type	EMS2

**Exhaust System**

Exhaust gas flow	102.5 m <sup>3</sup> /min
Exhaust temperature	494°C
Max back pressure	10 kPa

**Air Intake System**

Max intake restriction	5 kPa
Combustion air flow	41.2 m <sup>3</sup> /min
Air flow required for radiator	564 m <sup>3</sup> /min

**MODEL: HC-450GF****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	201 g/kWh	122L/h
Fuel consumption @ 75% (Prime Power) Load	197 g/kWh	90L/h
Fuel consumption @ 50% (Prime Power) Load	198 g/kWh	61L/h

**Oil System**

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

**Cooling System**

Coolant capacity	60 L
Max water temperature	103°C

**MODEL: HC-450GF****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	625kVA
Alternator Efficiency	94.8%

**MODEL: HC-450GF****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
MCCB		

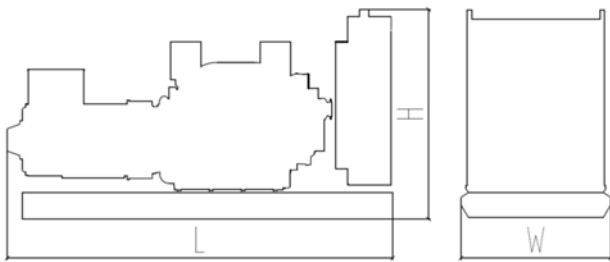
**MODEL: HC-450GF**

**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		

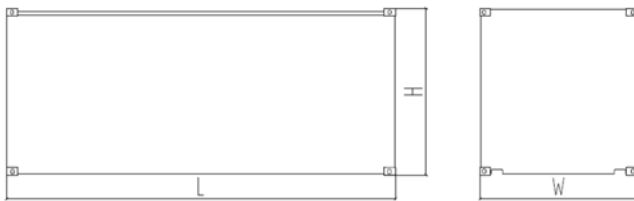
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 3350×1250×2050 mm

Weight: 3610 kg



**Soundproof Type**

Overall Dimensions: 4630×1660×2250 mm

Weight: 5590 kg

*Specifications are subject to change without notice.*