

MODEL	HQV100GF	
Prime Power(50Hz)	100KW	125KVA
Standby Power(50Hz)	110KW	137.5KVA

**Standard Features**
**General Features:**

- ◆ Engine (Volvo TAD532GE)
- ◆ Radiator 40°C max, fans are driven by belt, with safety guard
- ◆ 24V charge alternator
- ◆ Alternator: single bearing alternator IP23, insulation class H/H
- ◆ Absorber
- ◆ Dry type air filter, fuel filter, oil filter
- ◆ Main line circuit breaker
- ◆ Standard control panel
- ◆ Batteries, rack and cable
- ◆ Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- ◆ User manual


**Generator Ratings**

Voltage(V)		Hz	Phase	P.F (cos $\phi$ )	Prime Amps (A)	Prime Ratings (KW/KVA)	
440	254	50	3	0.8	164.02	100	125
415	240	50	3	0.8	173.91	100	125
400	230	50	3	0.8	180.43	100	125
380	220	50	3	0.8	189.92	100	125

●Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (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.

**Standard Features**

Huaquan 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: ①12 months, counted on the day Huaquan sold to the first buyer; ② One year after installation; ③ 1000 running hours (accumulated); subject to the earlier one. Service and parts are available from Huaquan Power or distributors in your location.



## Volvo Genset

HQV100GF

### Engine Data

Manufacturer / Model: Volvo TAD532GE , 4-stroke  
Air Intake System: Turbo charger  
Fuel System: Rotary low-pressure fuel pump  
Cylinder Arrangement: 4 in line  
Lubrication system: Rotary displacement oil pump driven by the crankshaft  
Displacement: 4.76L  
Bore and Stroke: 108\*130 (mm)  
Compression Ratio: 17.5:1  
Rated RPM: 1500rpm  
Max. Standby Power: 125KW  
Governor Type: 12 V electrical system, ECU control

### Exhaust system

Max Back Pressure: 5kPa  
Exhaust gas flow: 21.2 m<sup>3</sup>/min

### Air Intake System

Max Intake Restriction: 3.5kPa

### Fuel System

25% (Prime Power) Load: 239g/Kw.h  
50% (Prime Power) Load: 213g/Kw.h  
75% (Prime Power) Load: 210g/Kw.h  
100% (Prime Power) Load: 214g/Kw.h

### Oil System

Total Oil Capacity: 13L  
Oil Consumption: ≤0.08L/h

### Cooling System

Total Coolant Capacity: 30L  
Fan power consumption: 8KW

### Alternator Specification

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

### Alternator Data

Manufacturer: STAMFORD/MARATHON/ LEROY-SOMER/HUAQUAN  
 Number of Phase: 3  
 Connecting Type: 3 phase and 4 wires,"Y" type connecting  
 Number of bearing: 1  
 Power factor: 0.8  
 Protection grade: IP23 option,upon request  
 Altitude :  $\leq 1000\text{m}$   
 Exciter type: Brushless,self-exciting  
 Insulation class: H  
 Telephone influence factor(TIF):  $\leq 50$   
 THF:  $\leq 2\%$   
 Alternator Capacity: 125KVA  
 Alternator Efficiencies: 85%  
 Air Cooling Flow:  $0.09\text{m}^3/\text{s}$

### Generating Set Data

Voltage Regulation:  $\geq \pm 5\%$   
 Voltage Regulation, Stead State:  $\leq \pm 1\%$   
 Sudden Voltage Warp:  $\leq +25\%$   
 Sudden Voltage Warp:  $\leq -20\%$   
 Voltage Stable Time:  $\leq 5\text{S}$   
 Voltage unbalance:  $\leq 1\%$   
 Frequency Regulation, Stead State:  $\leq 5\%$   
 Frequency Waving:  $\leq 0.5\%$   
 Sudden Frequency Warp:  $\leq +10\%$   
 Transient frequency deviation:  $\leq -7\%$   
 Frequency Recovery Time:  $\leq 3\text{S}$

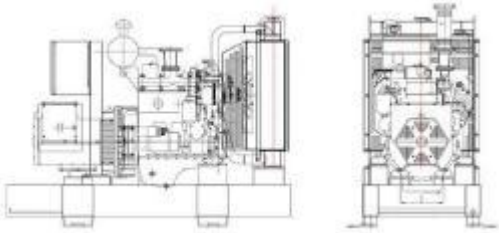
### Standard Features

- |                                |                  |                   |
|--------------------------------|------------------|-------------------|
| ◆ Standard Auto Control System | ◆ MCCB           | ◆ Special tool    |
| ◆ Starting batteries           | ◆ Battery switch | ◆ Oil Drain Valve |
| ◆ Exhaust System               | ◆ Shock pad      | ◆ Documents       |

### Options

- |                    |                        |                             |                      |
|--------------------|------------------------|-----------------------------|----------------------|
| Engine:            | ◇ Engine Heater        | ◇ Battery Charger           | ◇ Air preheater      |
| Alternator:        | ◇ Alternator Heater    | ◇ PMG                       |                      |
| Electrical System: | ◇ Remote Control Panel | ◇ Automatic Transfer Switch | ◇ Paralleling System |
| Type:              | ◇ Rainproof Type       | ◇ Soundproof Type           | ◇ Trailer Type       |
| Other:             | ◇ Spare Parts          | ◇ Daily Fuel Tank           |                      |

## Dimension & Weight



### Open Type

Overall Size: 2300(mm) × 790 (mm) × 1380 (mm)

Weight: 1350kg

### Soundproof Type

Overall Size: 2900 (mm) × 1050 (mm) × 1700 (mm)

Weight: 1650kg

## Standard Control Panel



Huaqian Power uses micro processing technique integrating digital, intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses Smartgen LCD display, optional Chinese and English/ Russian/ Spanish display interface with operation easy and reliable. It can be widely used in all types of generator automatic control system for compact structure, advanced circuits, simple connections and high reliability.

## Typical Projects

