

MODEL	HQV120GF	
Prime Power(50Hz)	120KW	150KVA
Standby Power(50Hz)	132KW	165KVA

Standard Features
General Features:

- ◆ Engine (Volvo TAD731GE)
- ◆ 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 ϕ)	Prime Amps (A)	Prime Ratings (KW/KVA)	
440	254	50	3	0.8	196.83	120	150
415	240	50	3	0.8	208.69	120	150
400	230	50	3	0.8	216.51	120	150
380	220	50	3	0.8	227.91	120	150

●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.

Engine Data

Manufacturer / Model: Volvo TAD731GE , .4-stroke
Air Intake System: Turbo charger
Fuel System: Direct injection, Rotary low-pressure fuel pump
Cylinder Arrangement: 6 in line
Lubrication system: Rotary displacement oil pump driven by the crankshaft
Displacement: 7.15L
Bore and Stroke: 108*130 (mm)
Compression Ratio: 18:1
Rated RPM: 1500rpm
Max. Standby Power: 148KW
Governor Type: 12 V electrical system, ECU control

Exhaust system

Max Back Pressure: 5kPa
Exhaust gas flow: 27.5 m³/min

Air Intake System

Max Intake Restriction: 3.5kPa

Fuel System

25% (Prime Power) Load: 259g/Kw.h
50% (Prime Power) Load: 224g/Kw.h
75% (Prime Power) Load: 216g/Kw.h
100% (Prime Power) Load: 215g/Kw.h

Oil System

Total Oil Capacity: 20L
Oil Consumption: ≤0.1L/h

Cooling System

Total Coolant Capacity: 30L
Fan power consumption: 5KW

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): ≤ 50

THF: $\leq 2\%$

Alternator Capacity: 150KVA

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

◆ Starting batteries

◆ Exhaust System

◆ MCCB

◆ Battery switch

◆ Shock pad

◆ Special tool

◆ Oil Drain Valve

◆ Documents

Options

Engine: ◇ Engine Heater

Alternator: ◇ Alternator Heater

Electrical System: ◇ Remote Control Panel

Type: ◇ Rainproof Type

Other: ◇ Spare Parts

◇ Battery Charger

◇ PMG

◇ Automatic Transfer Switch

◇ Soundproof Type

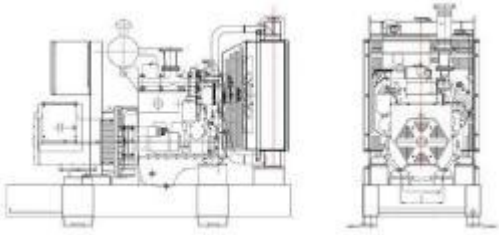
◇ Daily Fuel Tank

◇ Air preheater

◇ Paralleling System

◇ Trailer Type

Dimension & Weight



Open Type

Overall Size: 2400(mm) × 790 (mm) × 1380 (mm)

Weight: 1580kg

Soundproof Type

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

Weight: 1890kg

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

