

MODEL	HQD320GF	
Prime Power(50Hz)	320KW	400KVA
Standby Power(50Hz)	352KW	440KVA

**Standard Features**

- General Features:
- ◆ Engine (Doosan Daewoo P158FE)
  - ◆ 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	524.88	320	400
415	240	50	3	0.8	556.50	320	400
400	230	50	3	0.8	577.37	320	400
380	220	50	3	0.8	607.75	320	400

●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: Doosan Group / P158FE  
Air Intake System: Turbo charged  
Type : Four-stroke、 Direct Injection、 V type、 Intercooled  
Cylinder: 8 Cylinders  
Displacement: 14.618L  
Bore and Stroke: 128\*142 (mm)  
Compression Ratio: 14.2:1  
Rated RPM: 1500rpm  
Max. Standby Power: 441KW  
Governor Type: Mechanical/Electronic  
Idle -rpm: 800

**Exhaust system**

Exhaust Gas Flow:77.1m<sup>3</sup>/min  
Exhaust Temperature:579°C

**Air Intake System**

Dirty filter air filter maximum inlet resistance: 6.23kPa  
Clean filter air filter maximum inlet resistance:2.16 kPa

**Fuel System**

Fuel system form: P type direct injection system  
25%( Prime Power) Load: 26.5 L/h  
50%( Prime Power) Load:51.1 L/h  
75%( Prime Power) Load: 77.1L/h  
100%( Prime Power) Load: 105.1 L/h

**Oil System**

Capacity of the oil pan (low - high):17-21L  
Total system capacity: 28L

**Cooling System**

Total Coolant Capacity:100L  
Thermostat:71-85°C  
Pressure system allows maximum pressure:49kPa

**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 : ≤1000m  
 Exciter type: Brushless,self-exciting  
 Insulation class: H  
 Telephone influence factor(TIF): ≤50  
 THF: ≤2%  
 Alternator Capacity: 400KVA  
 Alternator Efficiencies: 85%  
 Air Cooling Flow: 0.09m3/s

**Generating Set Data**

Voltage Regulation: ≥ ±5%  
 Voltage Regulation, Stead State: ≤ ±1%  
 Sudden Voltage Warp: ≤+25%  
 Sudden Voltage Warp: ≤-20%  
 Voltage Stable Time: ≤6S  
 Voltage unbalance: ≤1%  
 Frequency Regulation, Stead State: ≤5%  
 Frequency Waving: ≤1.5%  
 Sudden Frequency Warp: ≤+12%  
 Transient frequency deviation: ≤-10%  
 Frequency Recovery Time: ≤5S

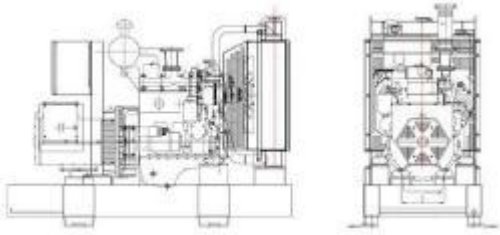
**Standard Features**

- |                                |                  |                   |
|--------------------------------|------------------|-------------------|
| ◆ 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: 3500(mm)×1550 (mm) ×2100 (mm)

Weight: 3000kg

Soundproof Type

Overall Size: 4500 (mm) ×1800 (mm) ×2300 (mm)

Weight: 4100kg

Standard Control Panel



Huaquan 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

