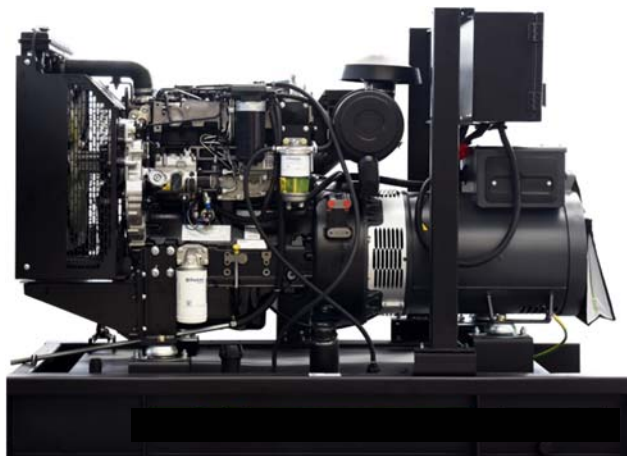


**MODEL: HC-24GF-60** **440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>26kVA</b>	<b>PRP</b> Prime Power	<b>24kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>404D-22G</b>		<b>SOL2-M1</b>

### GENERAL FEATURES

Engine: Perkins 404D-22G	Alternator: single bearing, IP23, insulation class H
50°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-24GF-60** **440V | 1800rpm | 60Hz**

**GENERATOR RATINGS**

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	31	21kW/26kVA	19kW/24kVA
460/266	60	3	0.8	33	21kW/26kVA	19kW/24kVA
440/254	60	3	0.8	34	21kW/26kVA	19kW/24kVA
416/240	60	3	0.8	36	21kW/26kVA	19kW/24kVA

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv ISO 8528) ; 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**

HiChai 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: One year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from HiChai Power or distributors in your location.

**MODEL: HC-24GF-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 404D-22G
Air intake system	Naturally aspirated
Fuel system	Indirect Injection
Cylinder arrangement	4 in line
Displacement	2.216L
Bore and stroke	84×100 mm
Compression ratio	23.3
Rated speed	1800rpm
Max. Standby power at rated speed	24.3kW
Governor type	Mechanical

**Exhaust System**

Exhaust gas flow	4.76 m <sup>3</sup> /min
Exhaust temperature	510°C
Max back pressure	10.2kPa

**Air Intake System**

Max intake restriction	6.4kPa
Combustion air flow	1.74 m <sup>3</sup> /min
Air flow required for radiator	52.2 m <sup>3</sup> /min

**MODEL:HC-24GF-60****440V | 1800rpm | 60Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	233 g/kWh	3.2 L/h
Fuel consumption @ 75% (Prime Power) Load	240 g/kWh	2.5 L/h
Fuel consumption @ 50% (Prime Power) Load	262 g/kWh	1.8 L/h

**Oil System**

Total oil capacity	10.6L
Oil sump capacity	8.9-10.6L

**Cooling System**

Coolant capacity	7L
Max water temperature	112°C

**MODEL: HC-24GF-60****440V | 1800rpm | 60Hz**

## 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	28kVA
Alternator Efficiency	88.6%

**MODEL: HC-24GF-60** **440V | 1800rpm | 60Hz**

**GENERATING SET DATA**

Related range of voltage setting	≥±5%
Steady-state voltage deviation	≤±1%
Transient voltage deviation (100 % sudden power decrease)	≤+25%
Transient voltage deviation (sudden power increase)	≤-20%
Voltage recovery time (100 % sudden power decrease)	≤6S
Voltage recovery time (sudden power increase)	≤6S
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	≤1.5%
Transient frequency deviation (100 % sudden power decrease)	≤+12%
Transient frequency deviation (sudden power increase)	≤-10%
Frequency recovery time (100 % sudden power decrease)	≤5S
Frequency recovery time (sudden power increase)	≤5S

**STANDARD FEATURES**

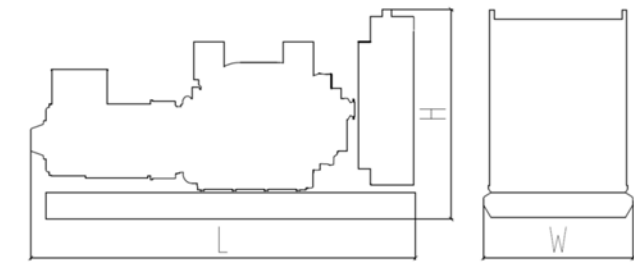
Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
Base fuel tank		

**MODEL: HC-24GF-60** **440V | 1800rpm | 60Hz**

**OPTIONS**

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

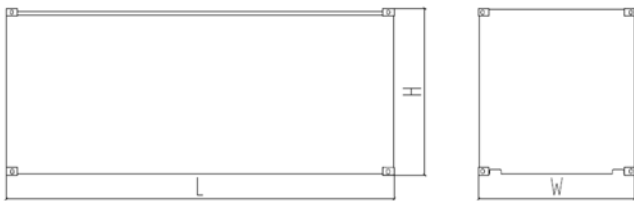
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 1470×690×1320 mm

Weight: 450kg



**Soundproof Type**

Overall Dimensions: 1910×880×1450 mm

Weight: 950kg

*Specifications are subject to change without notice.*