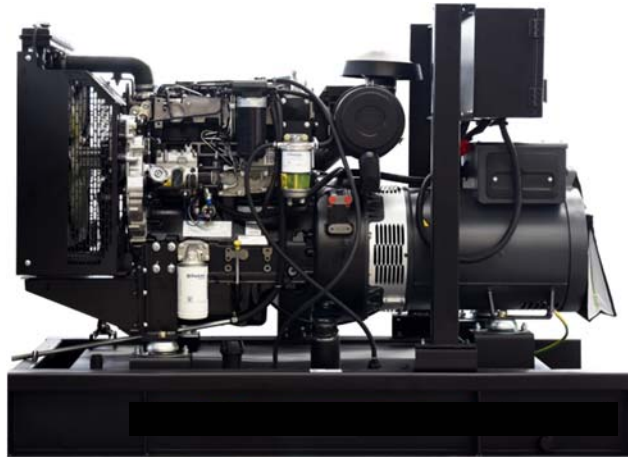


MODEL: HC-14GF-60 **440V | 1800rpm | 60Hz**



| | | | |
|-----------------------------|-----------------|---------------------------|-----------------|
| ESP Standby Power | 17kVA | PRP Prime Power | 15.8kVA |
| ENGINE | Perkins | ALTERNATOR | STAMFORD |
| | 403D-15G | | SOL1-P1 |

GENERAL FEATURES

| | |
|---|--|
| Engine: Perkins 403D-15G | 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-14GF-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 | 20 | 13.6kW/17kVA | 12.6kW/15.8kVA |
| 460/266 | 60 | 3 | 0.8 | 21 | 13.6kW/17kVA | 12.6kW/15.8kVA |
| 440/254 | 60 | 3 | 0.8 | 22 | 13.6kW/17kVA | 12.6kW/15.8kVA |
| 416/240 | 60 | 3 | 0.8 | 24 | 13.6kW/17kVA | 12.6kW/15.8kVA |

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-14GF-60**440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

| | |
|-----------------------------------|---------------------|
| Manufacturer / Model | Perkins 403D-15G |
| Air intake system | Naturally aspirated |
| Fuel system | Indirect injection |
| Cylinder arrangement | 3 in line |
| Displacement | 1.496L |
| Bore and stroke | 84×90 mm |
| Compression ratio | 22.5 |
| Rated speed | 1800rpm |
| Max. Standby power at rated speed | 16.2kW |
| Governor type | Mechanical |

Exhaust System

| | |
|---------------------|--------------------------|
| Exhaust gas flow | 3.36 m ³ /min |
| Exhaust temperature | 505°C |
| Max back pressure | 10.2kPa |

Air Intake System

| | |
|--------------------------------|--------------------------|
| Max intake restriction | 6.4kPa |
| Combustion air flow | 1.23 m ³ /min |
| Air flow required for radiator | 51 m ³ /min |

MODEL: HC-14GF-60 **440V | 1800rpm | 60Hz**

Fuel System

| | | |
|--|-----------|---------|
| Fuel consumption @ 100% (Prime Power) Load | 247 g/kWh | 4.4 L/h |
| Fuel consumption @ 75% (Prime Power) Load | 249 g/kWh | 3.3 L/h |
| Fuel consumption @ 50% (Prime Power) Load | 275 g/kWh | 2.5 L/h |

Oil System

| | |
|--------------------|--------|
| Total oil capacity | 6L |
| Oil sump capacity | 4.5-6L |

Cooling System

| | |
|-----------------------|-------|
| Coolant capacity | 6L |
| Max water temperature | 112°C |

MODEL: HC-14GF-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 | 16.8kVA |
| Alternator Efficiency | 84.0% |

MODEL: HC-14GF-60

440V | 1800rpm | 60Hz

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

STANDARD FEATURES

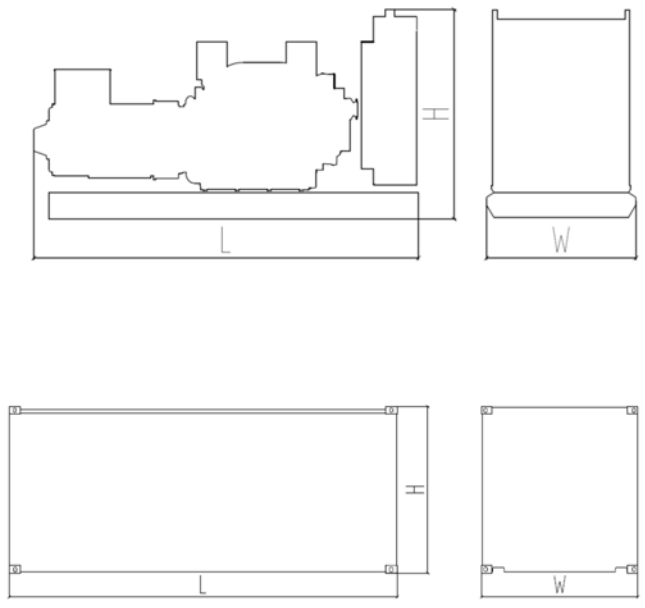
| | | |
|------------------------------|---|-----------|
| Standard auto control system | Exhaust system (including until muffler) | Documents |
| Oil drain valve | Starting batteries (maintenance-free & watering-free) with connective wires | MCCB |
| Base fuel tank | | |

MODEL: HC-14GF-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: 1300×690×1320 mm |
| Weight: 450kg |
| Soundproof Type |
| Overall Dimensions: 1710×880×1350 mm |
| Weight: 850kg |

Specifications are subject to change without notice.