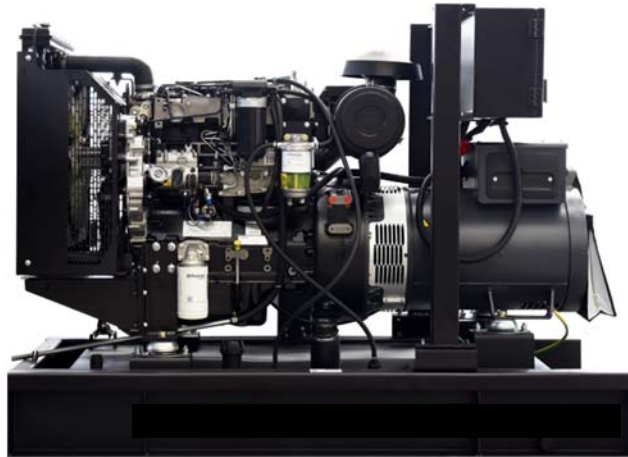


**MODEL: HC-32GF-60** **440V | 1800rpm | 60Hz**



|                             |                  |                           |                 |
|-----------------------------|------------------|---------------------------|-----------------|
| <b>ESP</b><br>Standby Power | <b>35kVA</b>     | <b>PRP</b><br>Prime Power | <b>32kVA</b>    |
| <b>ENGINE</b>               | <b>Perkins</b>   | <b>ALTERNATOR</b>         | <b>STAMFORD</b> |
|                             | <b>404D-22TG</b> |                           | <b>S0L2-P1</b>  |

## GENERAL FEATURES

|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| Engine: Perkins 404D-22TG                                 | 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-32GF-60****440V | 1800rpm | 60Hz****GENERATOR RATINGS**

| Voltage | Hz | Phase | PF<br>( COS $\Phi$ ) | Standby<br>Amps | Standby Ratings<br>(kW / kVA) | Prime Ratings<br>(kW / kVA) |
|---------|----|-------|----------------------|-----------------|-------------------------------|-----------------------------|
| 480/277 | 60 | 3     | 0.8                  | 42              | 28kW/35kVA                    | 25.6kW/32kVA                |
| 460/266 | 60 | 3     | 0.8                  | 44              | 28kW/35kVA                    | 25.6kW/32kVA                |
| 440/254 | 60 | 3     | 0.8                  | 46              | 28kW/35kVA                    | 25.6kW/32kVA                |
| 416/240 | 60 | 3     | 0.8                  | 49              | 28kW/35kVA                    | 25.6kW/32kVA                |

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-32GF-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

|                                   |                    |
|-----------------------------------|--------------------|
| Manufacturer / Model              | Perkins 404D-22TG  |
| Air intake system                 | Turbocharged       |
| 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 | 33.3kW             |
| Governor type                     | Mechanical         |

**Exhaust System**

|                     |                         |
|---------------------|-------------------------|
| Exhaust gas flow    | 7.5 m <sup>3</sup> /min |
| Exhaust temperature | 530°C                   |
| Max back pressure   | 10.2kPa                 |

**Air Intake System**

|                                |                          |
|--------------------------------|--------------------------|
| Max intake restriction         | 6.4kPa                   |
| Combustion air flow            | 2.49 m <sup>3</sup> /min |
| Air flow required for radiator | 102 m <sup>3</sup> /min  |

**MODEL: HC-32GF-60**

**440V | 1800rpm | 60Hz**

**Fuel System**

|                                            |           |         |
|--------------------------------------------|-----------|---------|
| Fuel consumption @ 100% (Prime Power) Load | 241 g/kWh | 8.5 L/h |
| Fuel consumption @ 75% (Prime Power) Load  | 237 g/kWh | 6.2 L/h |
| Fuel consumption @ 50% (Prime Power) Load  | 249 g/kWh | 4.4 L/h |

**Oil System**

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

**Cooling System**

|                       |       |
|-----------------------|-------|
| Coolant capacity      | 9.32L |
| Max water temperature | 112°C |

**MODEL: HC-32GF-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               | 33.6kVA                                |
| Alternator Efficiency             | 87.2%                                  |

**MODEL: HC-32GF-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               |                                                                             |           |

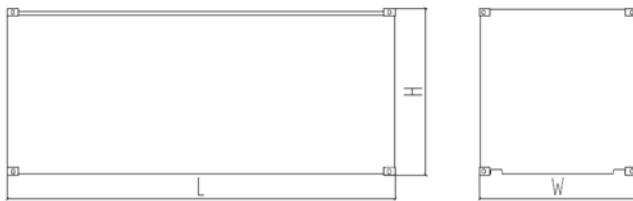
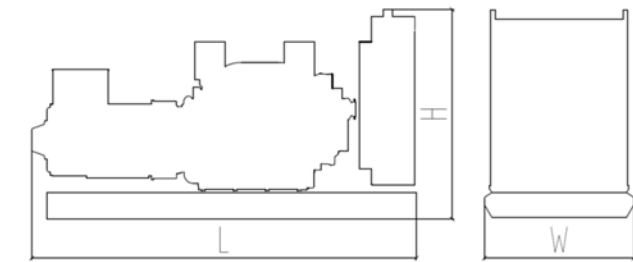
**MODEL: HC-32GF-60**

**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**



|                                           |
|-------------------------------------------|
| <b>Standard Configuration (open type)</b> |
| Overall Dimensions: 1470×690×1320 mm      |
| Weight: 560kg                             |
| <b>Soundproof Type</b>                    |
| Overall Dimensions: 1910×880×1450 mm      |
| Weight: 1080kg                            |

*Specifications are subject to change without notice.*