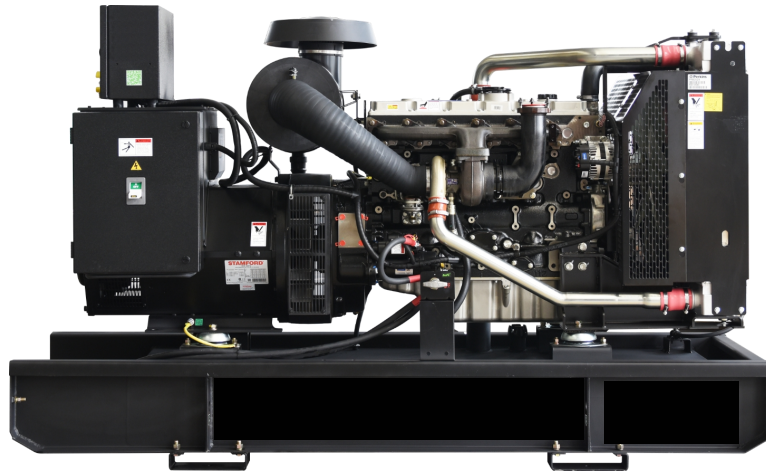


**MODEL: HC-200GF**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>200 kVA</b>	<b>PRP</b> Prime Power	<b>182 kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>1106A-70TAG3</b>		<b>UCI274G1</b>

## GENERAL FEATURES

Engine: Perkins 1106A-70TAG3	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-200GF****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	262	160kW/200kVA	145kW/182kVA
415/240	50	3	0.8	278	160kW/200kVA	145kW/182kVA
400/230	50	3	0.8	289	160kW/200kVA	145kW/182kVA
380/220	50	3	0.8	304	160kW/200kVA	145kW/182kVA

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.

Comprehensive Solutions For

**POWER GENERATION**

**MODEL: HC-200GF****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 1106A-70TAG3
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Air intake system	Turbocharged aftercooled
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Fuel system	Direct Injection
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Cylinder arrangement	6 in line
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Displacement	7.01L
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Bore and stroke	105×135 mm
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Compression ratio	16:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	180.2KW
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Governor type	Mechanical
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**Exhaust System**

Exhaust gas flow	33.85 m <sup>3</sup> /min
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Exhaust temperature	491 °C
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Max back pressure	6kPa
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**Air Intake System**

Max intake restriction	5kPa
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Combustion air flow	13.87 m <sup>3</sup> /min
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Air flow required for radiator	222 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**

**MODEL: HC-200GF**

**400V | 1500rpm | 50Hz**

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	209.2 g/kWh	39.9 L/h
Fuel consumption @ 75% (Prime Power) Load	211.3 g/kWh	30.3 L/h
Fuel consumption @ 50% (Prime Power) Load	200.2 g/kWh	19.5 L/h

**Oil System**

Total oil capacity	18L
Oil consumption as a percentage of full load fuel consumption less than	0.1%(As a percentage of fuel consumption)
Oil sump capacity	12.5~16.1L

**Cooling System**

Coolant capacity	21L
Max water temperature	110°C

**MODEL: HC-200GF****400V | 1500rpm | 50Hz**

## 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	182kVA
Alternator Efficiency	92.3%

**MODEL: HC-200GF**

**400V | 1500rpm | 50Hz**

### 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-200GF**

**400V | 1500rpm | 50Hz**

**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: 2550 × 930 × 1670 mm

Weight: 1800 kg



**Soundproof Type**

Overall Dimensions: 3590 × 1250 × 2050 mm

Weight: 2450 kg

*Specifications are subject to change without notice.*