

**MODEL: HC-165GF**

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



<b>ESP</b> Standby Power	<b>165 kVA</b>	<b>PRP</b> Prime Power	<b>150 kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>1106A-70TAG2</b>		<b>UCI274F1</b>

### GENERAL FEATURES

Engine: Perkins 1106A-70TAG2	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

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### GENERATOR RATINGS

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	217	132kW/165kVA	120kW/150kVA
415/240	50	3	0.8	230	132kW/165kVA	120kW/150kVA
400/230	50	3	0.8	238	132kW/165kVA	120kW/150kVA
380/220	50	3	0.8	251	132kW/165kVA	120kW/150kVA

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-165GF****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 1106A-70TAG2
Air intake system	Turbocharged and air charge cooled
Fuel system	Direct Injection
Cylinder arrangement	6 in line
Displacement	7.01L
Bore and stroke	105×135 mm
Compression ratio	18.2:1
Rated speed	1500rpm
Max. Standby power at rated speed	149.1KW
Governor type	Mechanical

**Exhaust System**

Exhaust gas flow	25.5 m <sup>3</sup> /min
Exhaust temperature	484 °C
Max back pressure	6kPa

**Air Intake System**

Max intake restriction	5kPa
Combustion air flow	10.7 m <sup>3</sup> /min
Air flow required for radiator	204 m <sup>3</sup> /min

Comprehensive Solutions For

**POWER GENERATION**

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**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	203.3 g/kWh	32.3 L/h
Fuel consumption @ 75% (Prime Power) Load	199.7 g/kWh	23.9 L/h
Fuel consumption @ 50% (Prime Power) Load	197.9 g/kWh	16.2 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

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## 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	160kVA
Alternator Efficiency	92.3%

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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		

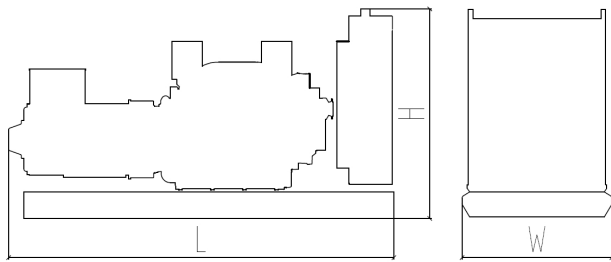
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**OPTIONS**

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: 2410 × 930 × 1650 mm

Weight: 1600 kg



**Soundproof Type**

Overall Dimensions: 3250 × 1170 × 1800 mm

Weight: 2400 kg

*Specifications are subject to change without notice.*