

MODEL: HC-150GF

400V | 1500rpm | 50Hz



ESP Standby Power	148 kVA	PRP Prime Power	135 kVA
ENGINE	Perkins	ALTERNATOR	STAMFORD
	1106A-70TG1		UCI274E1

GENERAL FEATURES

Engine: Perkins 1106A-70TG1	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-150GF

400V | 1500rpm | 50Hz

GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	194	118kW/148kVA	108kW/135kVA
415/240	50	3	0.8	205	118kW/148kVA	108kW/135kVA
400/230	50	3	0.8	213	118kW/148kVA	108kW/135kVA
380/220	50	3	0.8	224	118kW/148kVA	108kW/135kVA

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-150GF**400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 1106A-70TG1
----------------------	---------------------

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	135.8KW
-----------------------------------	---------

Governor type	Mechanical
---------------	------------

Exhaust System

Exhaust gas flow	22.66 m ³ /min
------------------	---------------------------

Exhaust temperature	576°C
---------------------	-------

Max back pressure	6kPa
-------------------	------

Air Intake System

Max intake restriction	5kPa
------------------------	------

Combustion air flow	8.09 m ³ /min
---------------------	--------------------------

Air flow required for radiator	252 m ³ /min
--------------------------------	-------------------------

Comprehensive Solutions For

POWER GENERATION

MODEL: HC-150GF

400V | 1500rpm | 50Hz

Fuel System

Fuel consumption @ 100% (Prime Power) Load	203 g/kWh	29.2 L/h
Fuel consumption @ 75% (Prime Power) Load	204.5 g/kWh	22.1 L/h
Fuel consumption @ 50% (Prime Power) Load	213.9 g/kWh	15.7 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-150GF**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	140kVA
Alternator Efficiency	91.7%

MODEL: HC-150GF

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		

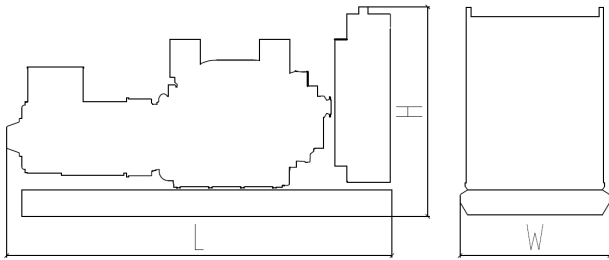
MODEL: HC-150GF

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		

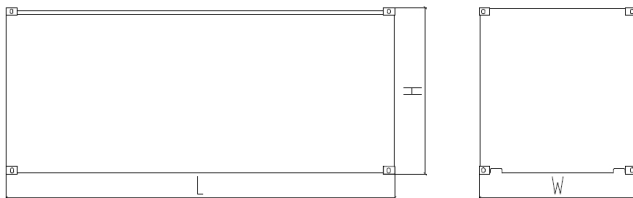
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 2410 × 930 × 1650 mm

Weight: 1550 kg



Soundproof Type

Overall Dimensions: 3250 × 1170 × 1800 mm

Weight: 2350 kg

Specifications are subject to change without notice.