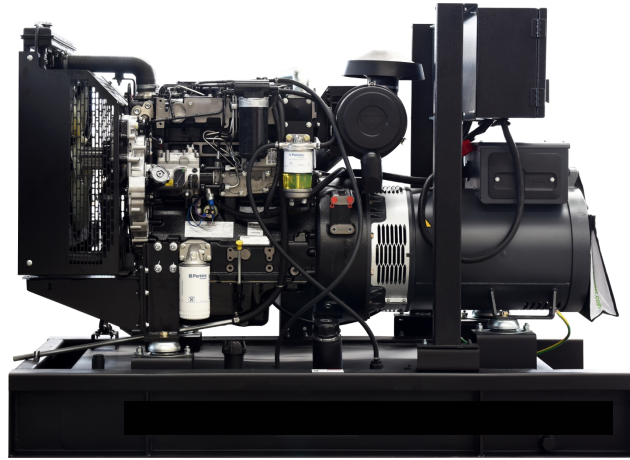


MODEL: HC-88GF

400V | 1500rpm | 50Hz



ESP Standby Power	88 kVA	PRP Prime Power	80 kVA
ENGINE	Perkins 1104A-44TG2	ALTERNATOR	STAMFORD UCI224G1

GENERAL FEATURES

Engine: Perkins 1104A-44TG2	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-88GF**400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	115	70.4kW/88kVA	64kW/80kVA
415/240	50	3	0.8	122	70.4kW/88kVA	64kW/80kVA
400/230	50	3	0.8	127	70.4kW/88kVA	64kW/80kVA
380/220	50	3	0.8	134	70.4kW/88kVA	64kW/80kVA

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-88GF**400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 1104A-44TG2
----------------------	---------------------

Air intake system	Turbocharged
-------------------	--------------

Fuel system	Direct Injection
-------------	------------------

Cylinder arrangement	4 in line
----------------------	-----------

Displacement	4.4L
--------------	------

Bore and stroke	105×127 mm
-----------------	------------

Compression ratio	17.25:1
-------------------	---------

Rated speed	1500rpm
-------------	---------

Max. Standby power at rated speed	80.7KW
-----------------------------------	--------

Governor type	Electronic(optional)
---------------	----------------------

Exhaust System

Exhaust gas flow	13.3 m ³ /min
------------------	--------------------------

Exhaust temperature	580°C
---------------------	-------

Max back pressure	10kPa
-------------------	-------

Air Intake System

Max intake restriction	8kPa
------------------------	------

Combustion air flow	5.14 m ³ /min
---------------------	--------------------------

Air flow required for radiator	89 m ³ /min
--------------------------------	------------------------

Comprehensive Solutions For

POWER GENERATION

MODEL: HC-88GF

400V | 1500rpm | 50Hz

Fuel System

Fuel consumption @ 100% (Prime Power) Load 18.7L/h

Fuel consumption @ 75% (Prime Power) Load 14.0L/h

Fuel consumption @ 50% (Prime Power) Load 9.7L/h

Oil System

Total oil capacity 8L

Oil consumption as a percentage of full load fuel consumption less than 0.15% (As a percentage of fuel consumption)

Oil sump capacity 5.5-7L

Cooling System

Coolant capacity 13L

Max water temperature 110°C

MODEL: HC-88GF**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	85kVA
Alternator Efficiency	90.2%

MODEL: HC-88GF

400V | 1500rpm | 50Hz

GENERATING SET DATA

Related range of voltage setting	≥±5%
Steady-state voltage deviation	≤±1%
Transient voltage deviation (100 % sudden power decrease)	≤+25%
Transient voltage deviation (sudden power increase)	≤-20%
Voltage recovery time (100 % sudden power decrease)	≤6S
Voltage recovery time (sudden power increase)	≤6S
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	≤1.5%
Transient frequency deviation (100 % sudden power decrease)	≤+12%
Transient frequency deviation (sudden power increase)	≤-10%
Frequency recovery time (100 % sudden power decrease)	≤5S
Frequency recovery time (sudden power increase)	≤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-88GF

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: 2000 × 900 × 1550 mm

Weight: 1200 kg



Soundproof Type

Overall Dimensions: 2810 × 1140 × 1830 mm

Weight: 1750 kg

Specifications are subject to change without notice.