

**MODEL: HC-1375GF**

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



<b>ESP</b> Standby Power	<b>1375 kVA</b>	<b>PRP</b> Prime Power	<b>1250 kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>4012-46TWG2A</b>		<b>S6L1D-G4</b>

### GENERAL FEATURES

Engine: Perkins 4012-46TWG2A

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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Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	1804	1100kW/1375kVA	1000kW/1250kVA
415/240	50	3	0.8	1913	1100kW/1375kVA	1000kW/1250kVA
400/230	50	3	0.8	1985	1100kW/1375kVA	1000kW/1250kVA
380/220	50	3	0.8	2089	1100kW/1375kVA	1000kW/1250kVA

**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.

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## ENGINE SPECIFICATION

Manufacturer / Model	Perkins 4012-46TWG2A
Air intake system	Turbocharged
Fuel system	Direct Injection
Cylinder arrangement	12 in V
Displacement	46L
Bore and stroke	160×190 mm
Compression ratio	13:1
Rated speed	1500rpm
Max. Standby power at rated speed	1217kW
Governor type	Electronic

### Exhaust System

Exhaust gas flow	230 m <sup>3</sup> /min
Exhaust temperature	422°C
Max back pressure	5kPa

### Air Intake System

Max intake restriction	4kPa
Combustion air flow	109 m <sup>3</sup> /min
Air flow required for radiator	1900 m <sup>3</sup> /min

Comprehensive Solutions For

**POWER GENERATION**

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**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	212 g/kWh	274 L/h
Fuel consumption @ 75% (Prime Power) Load	216 g/kWh	211 L/h
Fuel consumption @ 50% (Prime Power) Load	233 g/kWh	156 L/h

**Oil System**

Total oil capacity	177L
Oil consumption	0.52g/kWh
Oil sump capacity	115-158L

**Cooling System**

Coolant capacity	220L
Max water temperature	101°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	1260kVA
Alternator Efficiency	94.8%

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## 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	

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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: 4700×1780×2480 mm

Weight: 9500 kg



**Soundproof Type (standard 20'ft GP container)**

Overall Dimensions: 6058×2438×2591 mm

Weight: 14500 kg

*Specifications are subject to change without notice.*