

**MODEL: HC-625GF-60** **440V | 1800rpm | 60Hz**



<b>ESP</b> <small>Standby Power</small>	<b>688kVA</b>	<b>PRP</b> <small>Prime Power</small>	<b>625kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>2506C-E15TAG4</b>		<b>HCI544E1</b>

## GENERAL FEATURES

Engine: Perkins 2506C-E15TAG4	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)
480/277	60	3	0.8	828	550kW/688kVA	500kW/625kVA
460/266	60	3	0.8	864	550kW/688kVA	500kW/625kVA
440/254	60	3	0.8	903	550kW/688kVA	500kW/625kVA
416/240	60	3	0.8	955	550kW/688kVA	500kW/625kVA

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 2506C-E15TAG4
Air intake system	Turbocharged, air-to-air charge cooling
Fuel system	Direct injection
Cylinder arrangement	6 in line
Displacement	15.2L
Bore and stroke	137×171 mm
Compression ratio	16
Rated speed	1800rpm
Max. Standby power at rated speed	623kW
Governor type	ECM

**Exhaust System**

Exhaust gas flow	120 m <sup>3</sup> /min
Exhaust temperature	550°C
Max back pressure	6.8kPa

**Air Intake System**

Max intake restriction	6.2kPa
Combustion air flow	42 m <sup>3</sup> /min
Air flow required for radiator	866 m <sup>3</sup> /min

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Fuel consumption @ 100% (Standby Power) Load	211 g/kWh	147.7 L/h
Fuel consumption @ 75% (Standby Power) Load	N/A	N/A
Fuel consumption @ 50% (Standby Power) Load	N/A	N/A

**Oil System**

Total oil capacity	62L
Oil sump capacity	45-53L
Oil consumption at full load as a % of fuel consumption	<0.1%

**Cooling System**

Coolant capacity	58L
Max water temperature	107°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	713kVA
Alternator Efficiency	94.9%

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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)	$\leq +20\%$
Transient voltage deviation (sudden power increase)	$\leq -15\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
Voltage recovery time (sudden power increase)	$\leq 4S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 0.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
Transient frequency deviation (sudden power increase)	$\leq -7\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
Frequency recovery time (sudden power increase)	$\leq 3S$

### STANDARD FEATURES

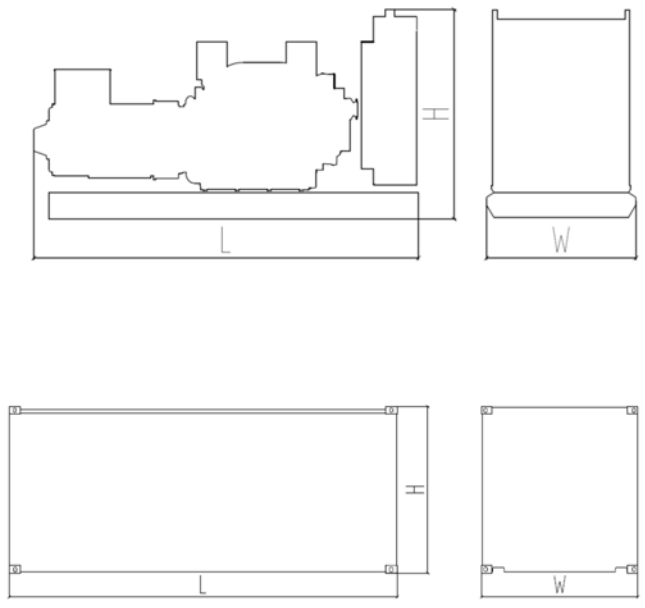
Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB

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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: 3400×1270×1974 mm
Weight: 4350kg
Soundproof Type
Overall Dimensions: 4630×1660×2250 mm
Weight: 5850kg

Specifications are subject to change without notice.