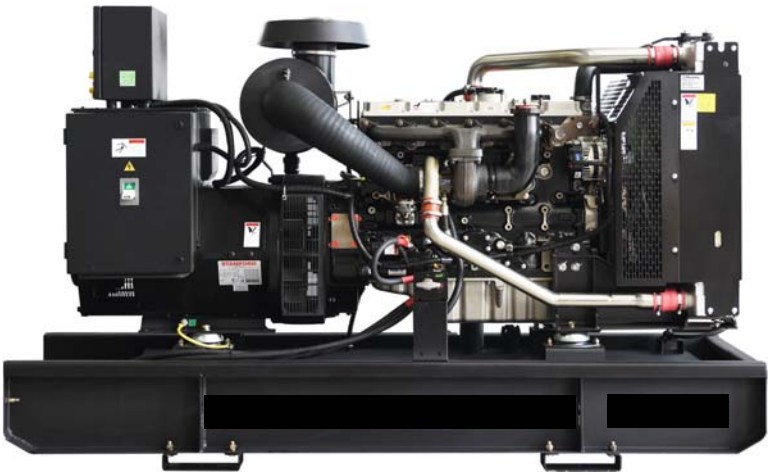
MODEL: HC-275GF-60

440V | 1800rpm | 60Hz



ESP Standby Power	**308kVA**	**PRP** Prime Power	**280kVA**
ENGINE	**Perkins**	**ALTERNATOR**	**STAMFORD**
	1506A-E88TAG3		**UCDI274J1**

GENERAL FEATURES

Engine: Perkins 1506A-E88TAG3	Alternator: single bearing, IP23, insulation class H
50℃ 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-275GF-60 440V | 1800rpm | 60Hz

GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	370	246kW/308kVA	224kW/280kVA
460/266	60	3	0.8	387	246kW/308kVA	224kW/280kVA
440/254	60	3	0.8	404	246kW/308kVA	224kW/280kVA
416/240	60	3	0.8	427	246kW/308kVA	224kW/280kVA

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 1506A-E88TAG3
Air intake system	Air to air aftercooled, turbocharged
Fuel system	Direct injection
Cylinder arrangement	6 in line
Displacement	8.8L
Bore and stroke	112×149 mm
Compression ratio	16.1
Rated speed	1800rpm
Max. Standby power at rated speed	297kW
Governor type	ECM

Exhaust System

Exhaust gas flow	48.9 m^3/min
Exhaust temperature	496°C
Max back pressure	10kPa

Air Intake System

Max intake restriction	6.2kPa
Combustion air flow	19.8 m^3/min
Air flow required for radiator	482 m^3/min

MODEL: HC-275GF-60 440V | 1800rpm | 60Hz

Fuel System		
Fuel consumption @ 100% (Prime Power) Load	198.5 g/kWh	59.1 L/h
Fuel consumption @ 75% (Prime Power) Load	199.3 g/kWh	45.4 L/h
Fuel consumption @ 50% (Prime Power) Load	208.4 g/kWh	32.7 L/h

Oil System	
Total oil capacity	41L
Oil sump capacity	36-39L
Oil consumption at full load as a % of fuel consumption	<0.1%

Cooling System	
Coolant capacity	30L
Max water temperature	107°C

MODEL: HC-275GF-60 440V | 1800rpm | 60Hz

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	281kVA
Alternator Efficiency	92.8%

MODEL: HC-275GF-60 440V | 1800rpm | 60Hz

GENERATING SET DATA

Related range of voltage setting	≥±5%
Steady-state voltage deviation	≤±1%
Transient voltage deviation (100 % sudden power decrease)	≤+20%
Transient voltage deviation (sudden power increase)	≤-15%
Voltage recovery time (100 % sudden power decrease)	≤4S
Voltage recovery time (sudden power increase)	≤4S
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	≤0.5%
Transient frequency deviation (100 % sudden power decrease)	≤+10%
Transient frequency deviation (sudden power increase)	≤-7%
Frequency recovery time (100 % sudden power decrease)	≤3S
Frequency recovery time (sudden power increase)	≤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
Base fuel tank		

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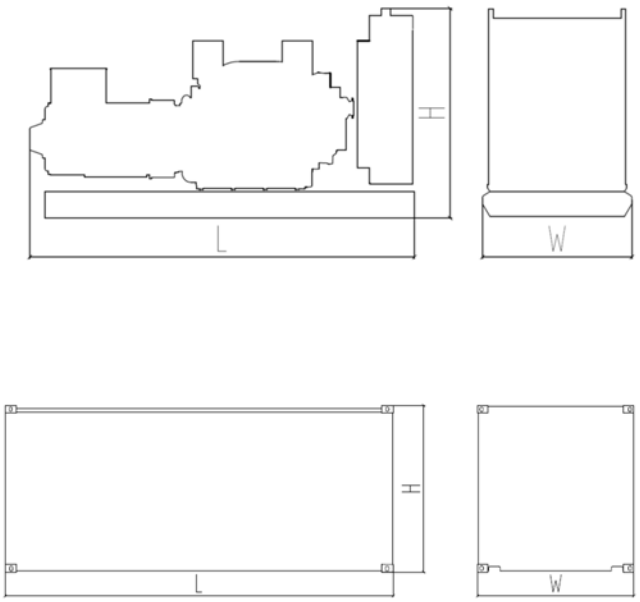
OPTIONS

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: 2650×1210×1670 mm
Weight: 2350kg
Soundproof Type
Overall Dimensions: 3590×1310×2050 mm
Weight: 3250kg

Specifications are subject to change without notice.