

**MODEL: HC-500GF2**

**440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>562kVA</b>	<b>PRP</b> Prime Power	<b>512kVA</b>
<b>ENGINE</b>	<b>CCEC Cummins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>KTA19-G3</b>		<b>S4L1D-G41</b>

## GENERAL FEATURES

Engine: CCEC Cummins KTA19-G3

Alternator: single bearing, IP23, insulation class H

40°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	676	450kW/562kVA	410kW/512kVA
460/266	60	3	0.8	705	450kW/562kVA	410kW/512kVA
440/254	60	3	0.8	737	450kW/562kVA	410kW/512kVA
416/240	60	3	0.8	780	450kW/562kVA	410kW/512kVA

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**

Baifa 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: 15 months from the date BAIFA sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from Baifa Power or distributors in your location.

Comprehensive Solutions For

**POWER GENERATION**

**MODEL: HC-500GF2****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	CCEC Cummins KTA19-G3
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Air intake system	Turbocharged, water/air cooling
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Fuel system	PT type fuel pump
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Cylinder arrangement	6 in line
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Displacement	19L
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Bore and stroke	159×159 mm
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Compression ratio	13.9
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Rated speed	1800rpm
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Max. Standby power at rated speed	511kW
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Governor type	Electronic
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**Exhaust System**

Exhaust gas flow	102.8 m <sup>3</sup> /min
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Exhaust temperature	491°C
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Max back pressure	10kPa
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**Air Intake System**

Max intake restriction	6.2kPa
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Combustion air flow	38.8 m <sup>3</sup> /min
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Air flow required for radiator	750 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**

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**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	204g/kWh	108.2L/h
Fuel consumption @ 75% (Prime Power) Load	211g/kWh	84.1L/h
Fuel consumption @ 50% (Prime Power) Load	199g/kWh	53.8L/h

**Oil System**

Total oil capacity	50L
Oil sump capacity	32-38L

**Cooling System**

Coolant capacity	93L
Max water temperature	104°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	535kVA
Alternator Efficiency	93.4%

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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

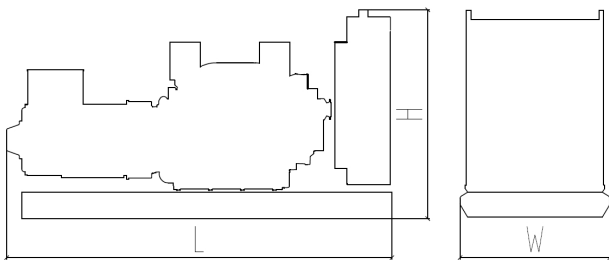
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**OPTIONS**

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

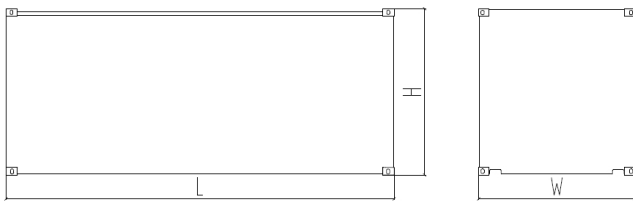
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 3450×1400×2100 mm

Weight: 4000 kg



**Soundproof Type**

Overall Dimensions: 4630×1660×2250 mm

Weight: 5600 kg

*Specifications are subject to change without notice.*