

MODEL	KH-C 1120 GF	
Prime Power (50Hz)	1120 KW	1400 KVA
Standby Power (50Hz)	1232 KW	1540 KVA

#### **Standard Features**

#### General Features:

- ♦ Engine (CCEC Cummins KTA50-G8)
- Radiator 400C max, fans are driven by belt, with safety guard
- ◆ 24V charge alternator
- ◆ Alternator: single bearing alternator IP23, insulation class H/H
- ◆ Absorber
- ◆ Dry type air filter, fuel filter, oil filter
- ◆ Main line circuit breaker
- ♦ Standard control panel
- ◆ Two12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange,muffler
- ◆ User manual



### **Generator Ratings**

Volta	ige(V)	Hz	Phase	P.F (cos⊄)	Prime Amps (A)		Ratings V/KVA)
440	254	50	3	0.8	1837.08	1120	1400
415	240	50	3	0.8	1947.74	1120	1400
400	230	50	3	0.8	2020.79	1120	1400
380	220	50	3	0.8	2127.14	1120	1400

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528); 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.

# Standard Features

Kaihua 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: a, 12 months, counted on the day KAIHUA sold to the first buyer; b, One year after installation; c, 1000 running hours (accumulated); subject to the earlier one. Service and parts are available from kaihua Power or distributors in your location.

#### **ENGINE DATA**

Manufacturer / Model:
Air Intake System:
Fuel System:
Cylinder Arrangement:
Displacement:
Bore and Stroke:
Compression Ratio:
Rated RPM:
Max. Standby Power:
Governor Type:

CCEC Cummins KTA50-G8, 4-cycle
Turbo, Water/Air cooling
PT type fuel pump
"V" in line;16 Cylinder
50.3L
159×159 (mm)
14.9:1
1500rpm
1429KW/1915HP
Electronic



#### Exhaust system

4350L/s **Exhaust Gas Flow: Exhaust Temperature: 510**℃ Max Back Pressure: 10kPa

#### Air Intake System

Max Intake Restriction: 6.23kPa **Burning Capacity:** 1655L/s Air Flow: 34525L/s

#### **Fuel System**

100%( Prime Power) Load: 205 g/KWh 75%( Prime Power) Load: 210 g/KWh 50%( Prime Power) Load: 220 g/KWh 110%( Prime Power) Load: 206 L/h

### Oil System

Total Oil Capacity: 204L Oil Consumption: ≤4g/kwh Engine Oil Tank Capacity: 178L Oil Pressure at Rated RPM: 345-483kPa

#### **Cooling System**

**Total Coolant Capacity:** 300L Thermostat: **82-93**℃ Max Water Temperature: 104℃

#### ALTERNATOR SPECIFICATION

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

#### **Alternator Data**

STAMFORD/MARATHON/KAIHUA Manufacturer: Number of Phase: 3 Connecting Type: 3 phase and 4 wires, "Y" type connecting Number of bearing

Power factor 8.0

Protection grade IP23 option,upon request **Altitude** ≤1000m

Exciter type Brushless, self-exciting Insulation class н

Telephone influence factor(TIF) ≤50 ≤2% Alternator Capacity: 1400 KVA Alternator Efficiencies 85% 0.09m3/s

Air Cooling Flow:

# **GENERATING SET DATA**

Voltage Regulation: ≥±5% Voltage Regulation, Stead State: ≤±1% Sudden Voltage Warp: ≤+25% Sudden Voltage Warp: ≤-20% Voltage Stable Time: ≤6S Voltage unbalance: ≤1% Frequency Regulation, Stead State: ≤5%



Frequency Waving: Sudden Frequency Warp: Transient frequency deviation: Frequency Recovery Time: ≤1.5% ≤+12% ≤-10% ≤5S

## **Standard Features**

♦ Standard Auto Control System	◆MCCB	◆Special tool
♦Starting batteries	◆ Battery switch	♦Oil Drain Valve
♦Exhaust System	♦Shock pad	◆Documents

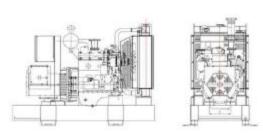
### **Options**

**♦**Trailer Type

ENCLINE	ALTERNATOR	ELECTRICAL CYCTEM
ENGINE	ALTERNATOR	ELECTRICAL SYSTEM
♦ Engine Heater	<b>♦Alternator Heater</b>	
<b>♦</b> Battery Charger	◇PMG	♦ Automatic Transfer Switch
<b>♦</b> Air preheater		<b>♦Paralleling System</b>
TYPE	OTHER	
	<b>♦</b> Spare Parts	
♦Soundproof Type	<b>♦</b> Daily Fuel Tank	

Overall Size: Weight:

# **Dimension & Weight**



	Open Type	
Overall Size:	5200(mm)×2100 (mm) ×2500 (mm)	
Weight:	9600kg	
	Soundproof Type	
Overall Size:	6000 (mm) ×2350 (mm) ×3150 (mm)	
Weight:	12000kg	
Trailer Type		

## **Standard Control Panel**



KAIHUA uses micro processing technique integrating digital,intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses LCD display, optional Chinese and English display interface with operation easy and reliable. It can be widely used in all types of generator automatic control system for compact structure, advanced circuits, simple connections and high reliability

## **Auto Module Control Panel**





Auto Module Control Panel is the configuration for nobody on duty controlling generators. This

kind of panel adopts auto module control system, with large LCD display to show the menu.

Features: MRS10-can receive remote output signal from ATS and realize auto start and stop of

generators.MRS16-can realize all functions of MRS10, add RS232 interface which can communicate with PC to realize remote operation.AMF25-Auto Mains Failure controller, can realize all functions of MRS16, furthermore can detect ATS and control directly

## **Typical Projects**



100 units cummins gensets exported to Asia



5 units cummins gensets exported to Angola



50 units cummins gensets exported to Pakistan

### **Test Center**







