

| MODEL                | KH-C 200 GF |            |
|----------------------|-------------|------------|
| Prime Power (50Hz)   | 200 KW      | 250 KVA    |
| Standby Power (50Hz) | 220 KW      | 275.00 KVA |

### Standard Features

#### General Features:

- ◆ Engine (DCEC Cummins 6LTAA8.9-G2)
- ◆ Radiator 50OC 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

| Voltage(V) |     | Hz | Phase | P.F (cos $\phi$ ) | Prime Amps (A) | Prime Ratings (KW/KVA) |     |
|------------|-----|----|-------|-------------------|----------------|------------------------|-----|
| 440        | 254 | 50 | 3     | 0.8               | 328.05         | 200                    | 250 |
| 415        | 240 | 50 | 3     | 0.8               | 347.81         | 200                    | 250 |
| 400        | 230 | 50 | 3     | 0.8               | 360.85         | 200                    | 250 |
| 380        | 220 | 50 | 3     | 0.8               | 379.85         | 200                    | 250 |

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: | DCEC Cummins 6LTAA8.9-G2, 4-cycle |
| Air Intake System:    | Turbo, Air/Air Cooling            |
| Fuel System:          | P7100 type fuel pump              |
| Cylinder Arrangement: | 6 in line                         |
| Displacement:         | 8.9L                              |
| Bore and Stroke:      | 114*145 (mm)                      |
| Compression Ratio:    | 16:1                              |
| Rated RPM:            | 1500rpm                           |
| Max. Standby Power:   | 240KW/326HP                       |
| Governor Type:        | Electronic                        |



### Exhaust system

|                      |                       |
|----------------------|-----------------------|
| Exhaust Gas Flow:    | 35m <sup>3</sup> /min |
| Exhaust Temperature: | 470℃                  |
| Max Back Pressure:   | 10.1kPa               |

### Air Intake System

|                         |                        |
|-------------------------|------------------------|
| Max Intake Restriction: | 6.2kPa                 |
| Burning Capacity:       | 13m <sup>3</sup> /min  |
| Air Flow:               | 326m <sup>3</sup> /min |

### Fuel System

|                          |            |
|--------------------------|------------|
| 100%( Prime Power) Load: | 197 g/Kw.h |
| 75%( Prime Power) Load:  | 197 g/Kw.h |
| 50%( Prime Power) Load:  | 201 g/Kw.h |
| 110%( Prime Power) Load: | 50L/h      |

### Oil System

|                            |            |
|----------------------------|------------|
| Total Oil Capacity:        | 27.6L      |
| Oil Consumption:           | ≤4g/kwh    |
| Engine Oil Tank Capacity:  | 24L        |
| Oil Pressure at Rated RPM: | 276-414kPa |

### Cooling System

|                         |        |
|-------------------------|--------|
| Total Coolant Capacity: | 41L    |
| Thermostat:             | 82-95℃ |
| Max Water Temperature:  | 104℃   |

## ALTERNATOR SPECIFICATION

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

## Alternator Data

|                                 |   |
|---------------------------------|---|
| Manufacturer:                   | STAMFORD/MARATHON/KAIHUA                |
| Number of Phase:                | 3                                       |
| Connecting Type:                | 3 phase and 4 wires,"Y" type connecting |
| Number of bearing               | 1                                       |
| Power factor                    | 0.8                                     |
| Protection grade                | IP23 option,upon request                |
| Altitude                        | ≤1000m                                  |
| Exciter type                    | Brushless,self-exciting                 |
| Insulation class                | H                                       |
| Telephone influence factor(TIF) | ≤50                                     |
| THF                             | ≤2%                                     |
| Alternator Capacity:            | 250 KVA                                 |
| Alternator Efficiencies         | 85%                                     |
| Air Cooling Flow:               | 0.09m <sup>3</sup> /s                   |

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

**Standard Features**

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

**Options**

- |                   |                     |                             |
|-------------------|---------------------|-----------------------------|
| <b>ENGINE</b>     | <b>ALTERNATOR</b>   | <b>ELECTRICAL SYSTEM</b>    |
| ◇ Engine Heater   | ◇ Alternator Heater | ◇ Remote Control Panel      |
| ◇ Battery Charger | ◇ PMG               | ◇ Automatic Transfer Switch |
| ◇ Air preheater   |                     | ◇ Paralleling System        |
| <b>TYPE</b>       | <b>OTHER</b>        |                             |
| ◇ Rainproof Type  | ◇ Spare Parts       |                             |
| ◇ Soundproof Type | ◇ Daily Fuel Tank   |                             |
| ◇ Trailer Type    |                     |                             |

**Dimension & Weight**

|   |   |
|---|---|
|   | <b>Open Type</b>                              |
|   | Overall Size: 2640(mm)× 970 (mm) ×1450 (mm)   |
|   | Weight: 2000kg                                |
|   | <b>Soundproof Type</b>                        |
|   | Overall Size: 3300 (mm) ×1400 (mm) ×1870 (mm) |
|   | Weight: 2900kg                                |
| <b>Trailer Type</b>                           |   |
| Overall Size: 4390 (mm) ×2150 (mm) ×2510 (mm) |   |
| Weight: 3900kg                                |   |

**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

