

## The Technical Specification of UKKMS® Diesel Generator of 738 Series

**GP738-G3****UJ250****UK7000****250KW****50Hz, 400V**

| Model          | UC250                             |
|----------------|-----------------------------------|
| Prime Power    | <b>250KW / 313KVA</b>             |
| Standby Power  | <b>275KW / 344KVA</b>             |
| Frequency      | 50Hz/1500 RPM                     |
| Factor         | 0.8(Lagging)                      |
| Output Voltage | 230V/400V                         |
| Output Current | 451A / 497A                       |
| Phase          | Three-phase, Four-wire            |
| Manufacturer   | Gongtai(Xiamen)New Energy Co.,Ltd |

(1)Normal operating power refers to the maximum continuous operating power under fluctuating load conditions without time limits (between maintenance intervals), with a 10% overload allowed for 1 hour every 12 hours.

(2)Standby power refers to the unit's instantaneous maximum operating power. When using standby power, the engine has no overload capacity; overloading is prohibited!

**Diesel Engine**

|                              |                                   |
|------------------------------|-----------------------------------|
| Manufacturer                 | Gongtai(Xiamen)New Energy Co.,Ltd |
| Model                        | GP738-G3                          |
| Structure and Operation Mode | Inline, Four Stroke, Water Cooled |
| Cylinder                     | 6                                 |
| Displacement-L               | 12.9                              |
| Intake Method                | Turbocharged and Intercooled      |
| Bore(mm)/Stroke(mm)          | 131×160                           |
| Compression Ratio            | 14                                |
| Rated Speed                  | 1500                              |
| Idle Speed-r/min             | 650                               |
| Prime Output Power-KW        | 280                               |
| Standby Output Power-KW      | 308                               |
| Speed Adjustment Method      | Electronic Speed Control          |
| Exhaust Temperature°C        | 640                               |

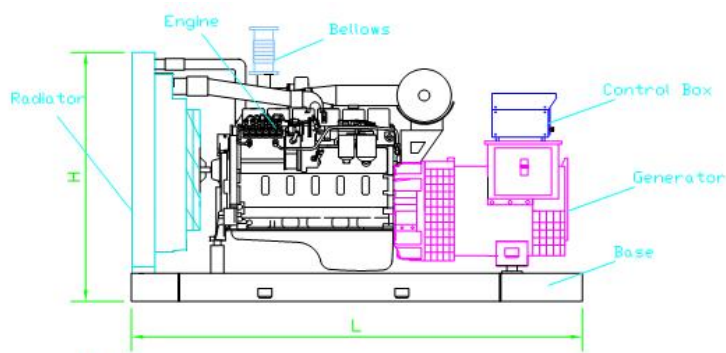
|                                           |                |
|-------------------------------------------|----------------|
| Fuel Consumption(g/kw.h)                  | 198            |
| Diesel Specification Grade                | 0#Light diesel |
| Oil Consumption(g/kw.h)                   | ≤0.6           |
| Lubricating Oil Specifications and Grades | 15W/40         |

### Generator

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Manufacturer                     | Gongtai(Xiamen)New Energy Co.,Ltd      |
| Model                            | UJ250                                  |
| Prime Power                      | 250KW                                  |
| Rated Current                    | 451A                                   |
| Rated Frequency                  | 50HZ                                   |
| Voltage Adjustment               | Automatic Voltage Regulation(with AVR) |
| Phase Number & Connection Method | Three-phase,Four-wire                  |
| Protection Grade                 | IP23                                   |
| Altitude not Exceeding           | 1000 meters                            |
| Overspeed Capability             | 2250RPM                                |
| Coil Pitch                       | 2/3                                    |
| Excitation System                | Self-excited                           |
| Insulation Grade                 | H                                      |
| Telephone Harmonic Factors THF   | < 2%                                   |
| Recovery Time(s)                 | ≤0.5                                   |

### Size & Weight

#### Open Type (without Silent Box)



Open Type (Standard)

Size(mm): 3150×1100×1720 (L\*W\*H)

Weight: 2700kg

**UK7000 Controller**

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controller Model    | UK7000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Manufacturer        | Gongtai(Xiamen)New Energy Co.,Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Available Functions | 1. Three-phase voltage, current, and frequency display;<br>2. Running time accumulation;<br>3. Oil pressure and oil temperature display, starting battery voltage detection;<br>4. Oil pressure and oil temperature alarm/shutdown protection, overspeed protection, emergency stop;<br>5. Charging module;<br>6. Manual and automatic start control functions;<br>7. Three-start failure protection;<br>8. The controller uses a large-screen LCD display with a freely switchable Chinese/English interface, simple operation, and reliable performance; Communication interface: Equipped with RS232/RS485 communication interfaces, supporting MODBUS RTU standard protocol. |

**(1) Overview**

The UK7000 control system is used for the automation of a single generator set, enabling automatic start/stop, automatic ATS switching, data measurement, and alarm protection functions. The controller features a large-screen LCD display with a user interface that can be freely switched between Chinese and English, offering simple operation and reliable performance.

The UK7000 automation controller utilizes microprocessor technology, enabling precise measurement of various parameters, setpoint adjustment, timing, and threshold setting. All parameters can be adjusted either from the controller's front panel or via a PC through a programming interface. It boasts a compact structure, simple wiring, and high reliability.

**(2) Performance and Features**

The UK7000 control system is used for single-unit automation, controlling the generator set's automatic start/stop via remote start-up signals. Its main features are as follows: 128x64 backlit LCD display with two languages (Chinese and English); touch-button operation.

**Commitment**

- ☺ Products and services comply with ISO 8528 and GB/T 2820-2009 manufacturing standards.
- ☺ Strictly adhere to ISO 9001 Quality Management System, ISO 14001 Environmental Management System, and ISO 45001 Occupational Health and Safety Management System.
- ☺ All products undergo rigorous 100% factory testing.
- ☺ Advanced and efficient production lines ensure timely delivery with guaranteed quality and quantity.
- ☺ Professional and prompt after-sales service.
- ☺ A wide supply of genuine original spare parts.

**Note:** The information provided is based on the latest data from our company. Please note that data is subject to change without notice.