

The Technical Specification of UKKMS® Diesel Generator of 738 Series

GP738-G5**UJ300****UK7000****300KW****50Hz, 400V**

Model	UC300
Prime Power	300KW / 375KVA
Standby Power	330KW / 413KVA
Frequency	50Hz/1500 RPM
Factor	0.8(Lagging)
Output Voltage	230V/400V
Output Current	542A / 596A
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-G5
Structure and Operation Mode	Inline, Four Stroke, Water Cooled
Cylinder	6
Displacement-L	14.5
Intake Method	Turbocharged and Intercooled
Bore(mm)/Stroke(mm)	138×160
Compression Ratio	14
Rated Speed	1500
Idle Speed-r/min	650
Prime Output Power-KW	339
Standby Output Power-KW	373
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	UJ300
Prime Power	300KW
Rated Current	541.2A
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): 3200×1200×1750 (L*W*H)

Weight: 3200kg

UK7000 Controller

Controller Model	UK7000
Manufacturer	Gongtai(Xiamen)New Energy Co.,Ltd
Available Functions	1. Three-phase voltage, current, and frequency display; 2. Running time accumulation; 3. Oil pressure and oil temperature display, starting battery voltage detection; 4. Oil pressure and oil temperature alarm/shutdown protection, overspeed protection, emergency stop; 5. Charging module; 6. Manual and automatic start control functions; 7. Three-start failure protection; 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.