

# GCU-100

## Automatic Engine Control and Protection Module

### Features

- Micro-Processor Auto Control & Protection
- Three Sets of High Illuminating LED Display Suitable for Indoor and Outdoor Use
- Full Function Modularized Design for Easy Installation
- All Functions Setting Can Be Done Directly On GCU-100 No Need For PC Connection<sup>\*1</sup>
- All settings are recorded into the internal (EEPROM) and protected from erasure even without battery
- Easy to Understand Graphical Warning Signals
- Din Rail Terminal For Easy Installation
- IP65 Waterproof Front Panel

\*1 User can program, change and cancel protection and warning settings according to the requirement.



### Protection & Alarm Status Indicators

- Engine Start Failure
- High Engine Temperature
- Engine Over & Under Speed
- Generator Over Load
- Charge Motor Failure
- Scheduled Maintenance Warning
- Emergency Stop Activated
- Low Engine Oil Pressure
- Abnormal AC Volt
- Low Fuel Level
- Abnormal DC Volt
- Free Programmable warning

### Panel Display

- Fixed or Circulating Full Phase Voltage, Current and Frequency
- Engine Operation Hours
- DC Voltage (Battery)
- Delay Countdown Display

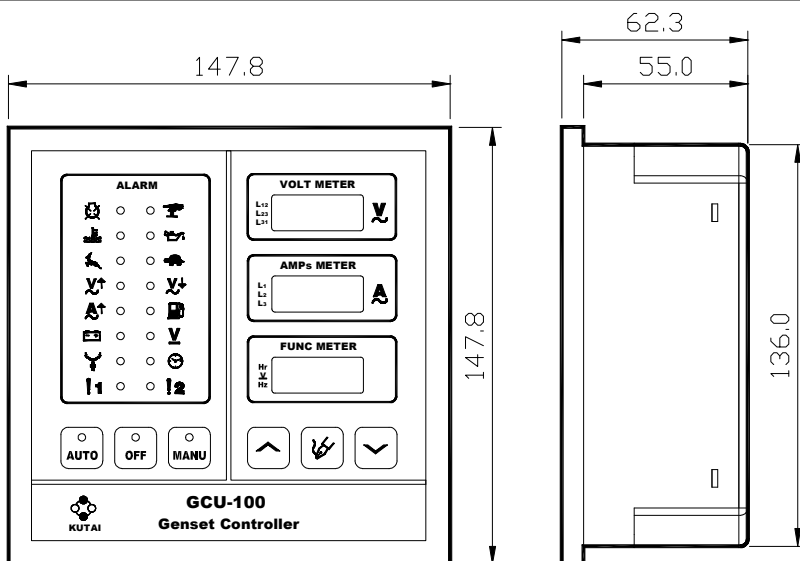
### Specifications

<b>Power Input</b>	Voltage 9~35 VDC (12V , 24V)	<b>MPU Signal Input</b>	Voltage $\pm 2$ to $\pm 70$ VAC
<b>Sensing Input</b>	Voltage 15~510 VAC		Frequency Min.100 Hz , Max.10 KHz
	Frequency 50/60 Hz	<b>CT Specification</b>	Burden Above 2.5VA
<b>Power Dissipation</b>	Max. 5 watt	<b>CT Secondary Ratio</b>	5A

### Environment

<b>Operating Temp.</b>	-20~70 °C	<b>Max. Vibration</b>	5~25 Hz , $\pm 1.6$ mm    25~100 Hz , a=4g
<b>Relative Humidity</b>	Maximum 90%		

### Mechanical Specifications (Unit : mm )



### Physical Specification

<b>Panel Cut-Out</b>	137.0 x 137.0 $\pm 0.5$ mm
<b>Dimensions</b>	147.8 (L) x 147.8 (W) x 62.3 (H) mm
<b>Weight</b>	604 g $\pm 2\%$