## GU350A Controller Brief Introduction

### Description:

GU350A Genset intelligent controller is adopted high performance computer chip, can modify generator control procedure and protection parameters, which incorporated kinds of functions, such as measure, control, protection, three remote, and programmable management. It fully meets the auto control requirements of different kinds of Genset for generator user and or special assembly factory.

It has following functions:

- The controller measure and display all output electric parameters for generator, and measure and display rpm, oil pressure, coolant temperature, DC source voltage and running hours for engine. And the voltage and current adopted true RMS measure to make sure data exact.
- Optional kinds of preset PT-sensor, and can configure parameters.
- User defines auxiliary control relay output.
- Buttons on control panel are used for selecting control modes, starting the running procedure, displaying data, and modifying the parameters of running and protection. LED indicators are used for indicating the operation mode of controller and the running status of Genset, and LCD displays each measuring parameter and status.
- Optional communication interface of RS485 or RS232, realizing long distance monitor, or communication with PC, fully realizing functions of remote signaling, telemetering and remote control, can read and set the running parameters of controller.
- The controller is closely combined by panel and powder coated steel enclosure, and the panel is die-casting by flame-retarded and high strength plastic. All connections of controller are connected by pin-like and locked up terminal, easier and more convenient to connect, move, maintain and replace the device.

### Measure and Display Data:

Gen 3-phase phase voltage **L1-N, L2-N, L3-N**
Gen 3-phase line voltage **L1- L2, L2- L3, L3- L1**
Gen 3-phase current    **L1, L2, L3**
Gen frequency **Hz**（**L1**）
Gen. 3-Phase total power ∑**P**
Gen. 3-Phase average power factor **PF**
Genset running speed **RPM**
Engine oil pressure **Kpa**
Engine coolant temp℃
Fuel level **%**
Batter voltage **VDC**
Genset running time **HOUR**

### Panel Buttons

AUTO operation mode
MAN operation mode
TEST operation mode
Start button
Stop/Failure reset button
Lamp test/ mute button
▶ Button (parameters setting)
▼ Button (scroll down menu/ value descend)
▲ Button (scroll up menu/ value ascend)

### Panel LED：

Charge fail
Fail to start
Low oil pressure failure
High coolant temp failure
Overspeed failure
Emergency stop
LED for AUTO operation mode
LED for MAN operation mode
LED for Test operation mode
LED for Unit start running
LED for stop/fail to stop
Mute LED

### Digital Input：

Genset remote signal
Emergency stop signal
High coolant temp signal (warning/stop)
Low oil pressure signal (warning/stop)
Pickup sensor
Auxiliary switch input status signal

### Control Relay Output：

Fuel controls output
Start control output
DC charger exciting output
Generator normal running
Definable auxiliary control relay output（total 3 ways）

### Other Parameters:

DC working power source
Voltage range：12V/24V   (8~35VDC continuous）
Max. operation working current：@12V 0.4A ,@24V 0.2A
AC input voltage：phase voltage10~300VAC RMS（AC frequency ≥ 40 Hz）
AC input frequency：3~70HZ（ voltage≥10V）
Pickup sensor input frequency：Max.10000Hz
Pickup sensor input voltage：1~70VAC
Fuel/ start control relay output 10A/30VDC
Auxiliary relay output 3A/30VDC
Running ambient temp -20~50℃
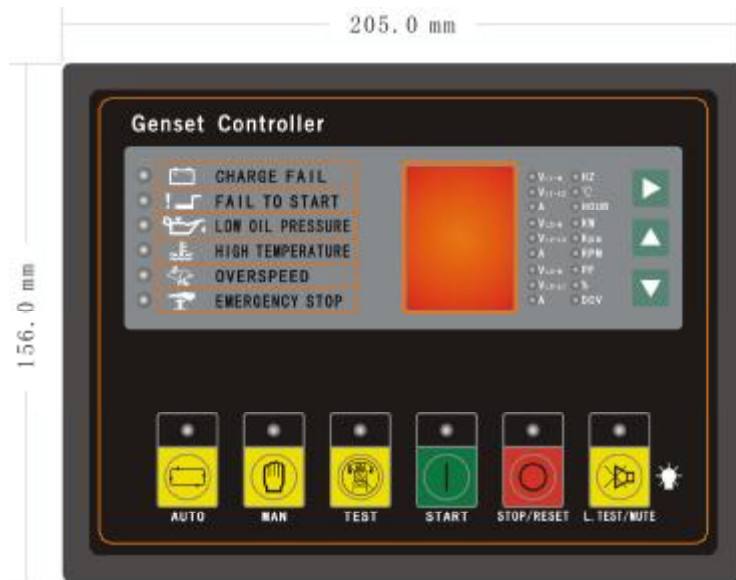Storage ambient temp -40~80℃

## Typical Wiring Diagram：
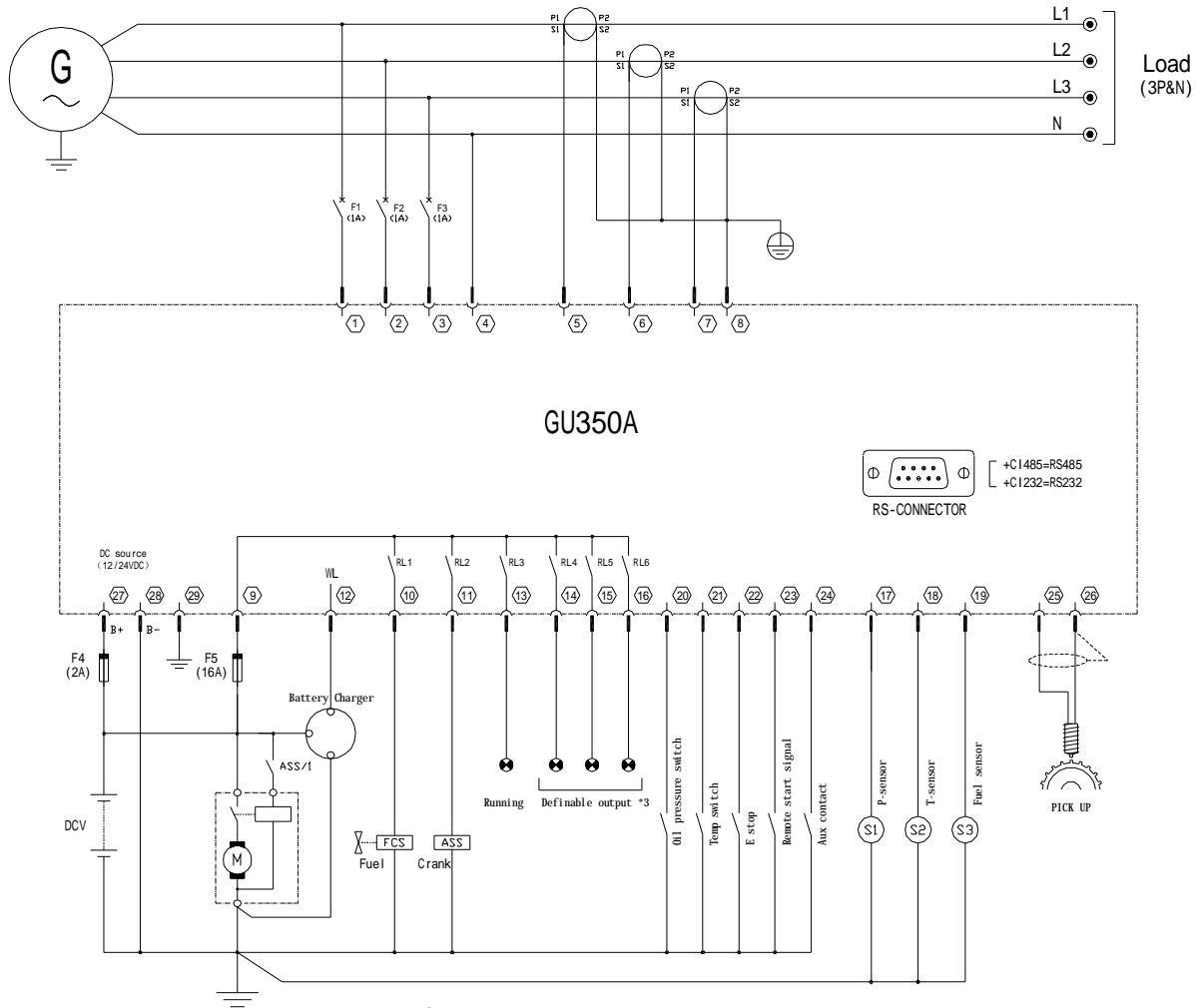
Note: Controller must be grounded well.

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### Outline Dimensional Drawing:

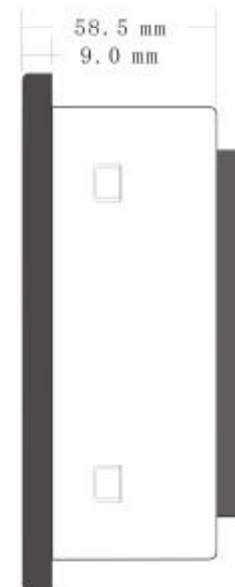| Operation Panel | W205mm×H156mm |
|---|---|
| Install Hatch | W186mm ×H137mm |
| Thickness | D58.5mm（unconnected） |



Front view
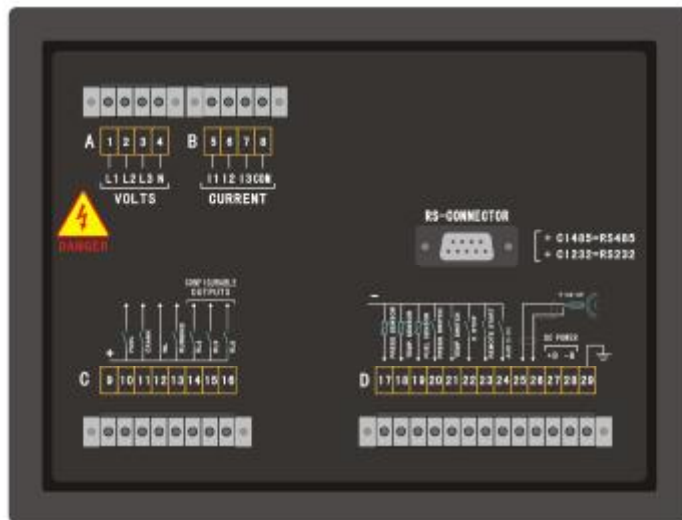
Back view

Side view

Version:042A081216