GU351A Controller Introduction

Introduction:

GU351A is an intelligent generating controller with ATS control function and using high efficiency CMOS chip. The control procedure, protection parameters and display parameters can be modified, such as Measuring, Control, Protection, Telecommunication, Remote control capability and so on. It can be fully satisfied the need of automatically control requirement of different genset from the users and manufactures.

- ✧ The controller measures and displays Mains. terminal input voltage and all genset output parameters, such as RPM, Oil pressure, Water temperature, DC source voltage, Running hours of the engine. True RMS display of Voltage, Current, Power an so no to ensure the accuracy of the datas.
- ✧ Good for wide range and different brands sensors being used, with ability to configure by user.
- ✧ Spare Aux. Control Relays-output and input.
- ✧ The push buttons on the control panel face are use for select the Control mode, Start operating sequence, Display parameters and Modify protection parameters.
  LED lamps display entire operating mode and fault indication.
  LED display entire parameters and status.
- ✧ RS485 or RS232 connection is available to achieve the Remote communication, Monitoring, Control and so on.
- ✧ The controller is integrated with anti-fire, high strength, die-casting face and powder coating steel case.
  All Connected terminals are pin-link type with screw locked. This connector is good for connecting, dismantling, maintenance and replacing.

Measuring and Display Parameters:

Mains 3-Phase Voltage: **L1-N, L2-N, L3-N**
Mains 3-Line Voltage: **L1- L2, L2- L3, L3- L1**
Gen.3-Phase Voltage: **L1-N, L2-N, L3-N**
Gen.3-Line Voltage: **L1- L2, L2- L3, L3- L1**
Load 3-Phase Current: **L1 L2 L3**
Mains Frequency: Hz（**L1**）
Gen. Frequency: Hz（**L1**）
3-Phase Power **ΣP**
3-Phase Average Power Factor **PF**
Gen. Running Speed **RPM**
Gen. Oil Pressure **Kpa**
Gen. Water Temperature **℃**
Fuel level: **%**
Battery Voltage **VDC**
Gen. Run Hours: **HOUR**

Panel Keys：

AUTO (Automatically operating mode)
MAN (Manual operating mode)
TEST (Test operating mode)
START (Start-up Key)
STOP/RESET (Stop/Fault Reset)
L. TEST/MUTE (Lamp Test/Mute)
(Parameter Setting)
(Scroll Down/Value Decrease)
(Scroll Up/Value Increase)

Panel LED Indicator：

Charge Fail
Fail to Start
Low Oil Pressure
High Water Temperature
Over-speed
E. Stop
Gen. Normal Indicator
Gen. Power on Indicator
Mains Normal indicator
Mains Power on Indicator
Auto-operating Mode Indicator
Manual-operating Mode Indicator
Test Operating Mode Indicator
Gen. Start-up Indicator
Stop/ Fail to Stop Indicator
Mute Indicator

Input of Switch

Gen. Closed Aux Input
Mains Closed Aux Input
Gen. Remote Start Signal
E-Stop Signal
High Water Temperature Signal (Alarm/Stop)
Low Oil Pressure (Alarm/Stop)
Speed Sensor
Aux. Switch Input Signal

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Output of Control Relay：

Fuel Solenoid Output

Start-up Output

DC Charger Excited Output

Gen. Normal Running

Programmable Aux. Control Relay Output (totals 3ways)

AC Input Voltage：Phase Voltage 10~300VAC RMS （AC Frequency≥40 Hz）

AC Input Frequency：3~70HZ（Voltage≥10V）

Pickup Frequency：Max:10000Hz

Pickup Voltage：1~70VAC

Fuel/Start Relay Output: 10A/30VDC

Aux. Relay Output: 3A/30VDC

Operating Temperature: -20~50℃

Storage Temperature: -40~80℃

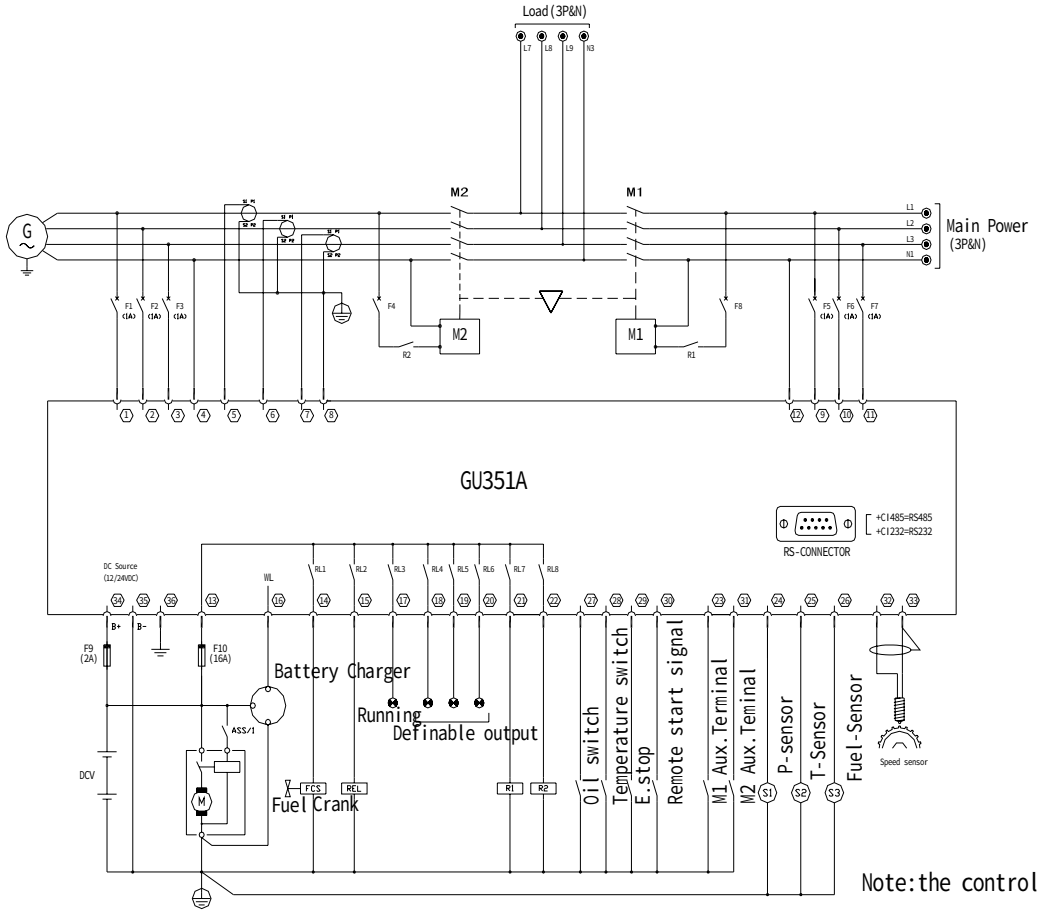
Specification:

DC Source

Voltage Range： 12V/24V (8~35VDC Serial)

Max. Consume Current：@12V 0.4A , @24V 0.2A

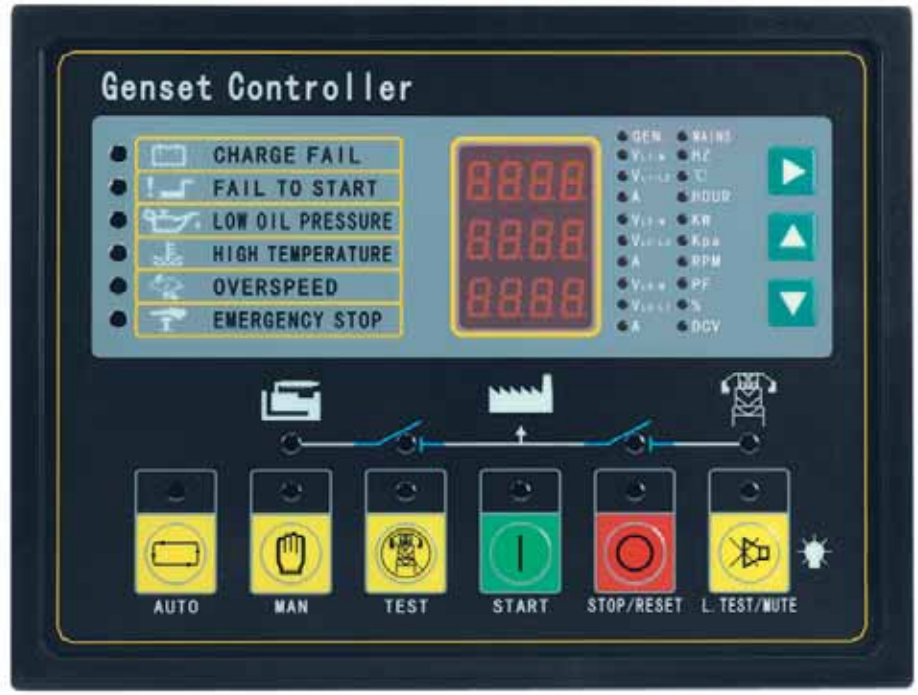
Typical Connecting Diagram：



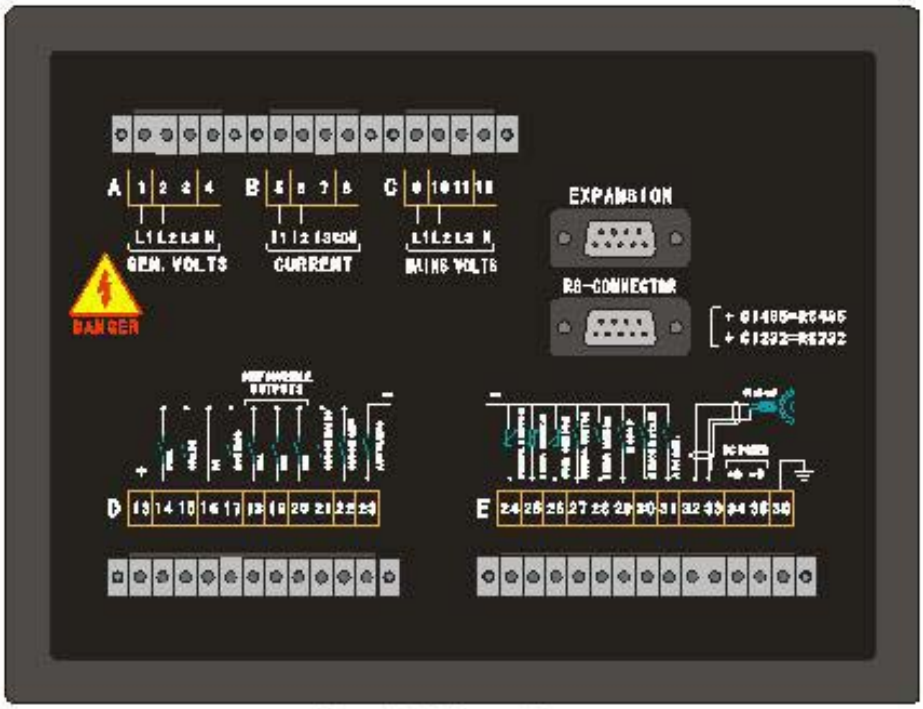
Note:the controller must grounded well!

Dimension：

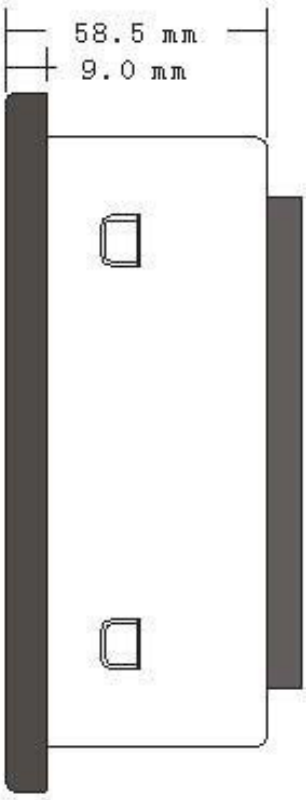
Control Panel	W205mm×H156mm
Hatch for Installation	W186mm ×H137mm
Deepness	D58.5mm（unconnected）



Front Elevation



Back Elevation



Side Elevation