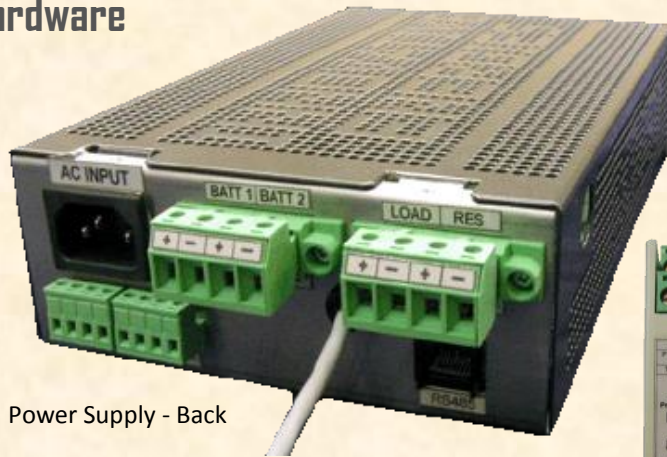


Hardware



Power Supply - Back



Power Supply - Front



Modbus Protocol Converter



Summary

The SR250 supports two battery strings and battery testing capabilities. This system is designed in such a way that one battery string can be fully tested, but discharging it and monitoring the currents and at the same time still maintain a stable output voltage in the case of a power failure.

Battery condition and power supply state information is available via serial Modbus RTU.

This power supply is available in various voltage outputs.

Features

- 250W Power Supply
- Available in various voltage outputs
- Automatic battery test capabilities
- Manually activated test battery testing
- Battery bad indication
- Extends battery lifetime
- Battery temperature monitoring capabilities (also stored max. and min. temperatures)
- Has modbus RTU communication capabilities via RS232 or RS485
- Modbus interface programmable using Windows based software

Control and Monitoring Parameters Available Via Modbus RTU (RS232 or RS485)

General Parameters:

- Normal Operation Indication
- Mains Failure Indication
- Overload Alarm
- Battery Condition Test Enabled

Battery Condition and Alarms

- Battery 1/2 Present Indication
- Battery 1/2 Charging Indication
- Battery 1/2 Discharging Indication
- Battery 1/2 Resting Indication
- Battery 1/2 Low Alarm
- Battery 1/2 Missing Alarm
- Battery 1/2 Good Condition Indication
- Battery 1/2 Testing Indication
- Battery 1/2 Bad Condition Alarm

Controls

- Battery Temperature Limits Reset
- Manual Start of a Battery Condition Test
- Manual Stop of a Battery Condition Test
- Enable Automatic Battery Condition Test
- Disable Automatic Battery Condition Test

Monitored Parameters

- Output Voltage
- Battery Current
- Power Supply Current
- Battery Temperature
- Test Condition Parameters

Programming and Monitoring Software

A programming and monitoring software is provided for free with the modbus RTU interface.

Dual Power MBLink v1.0

Innovative Energies - Power Supply - Modbus Interface Programmer
Dual Battery String - Power MBLink Version 1.0

Configuration | Configuration Instructions | Wiring Instructions | **Modbus Monitor** | Settings & Diagnostics

Power Supply Variables

Output Voltage: **27.3** Volts | Battery Current: **03.7** Amps | Power Supply Current: **02.9** Amps | Battery Temperature: **19.0** DegC

Address / Wtd: Add: 1 | Watchdog: 1055

Communication: Single Update | Continuous Update | **Stop Update**

System Status: Normal Operation (Possible Mains Fail, Mains Failure, Overload, System Down)

Battery String 1 Status: Present (Charging, Discharging, Resting, Low, Missing)

Battery String 2 Status: Present (Charging, **Discharging**, Resting, **Low**, Missing)

Comms: PSU to Converter: Comms OK (Comms Failed)

Comms: Converter to PC: Comms OK (Comms Failed)

BCT Status: BCT Enabled (BCT Disabled, **Bat. 1 Next BCT**, Bat. 2 Next BCT)

Battery String 1 Condition: Good Condition (Testing, Bad Condition)

Battery String 2 Condition: Good Condition (Testing, **Bad Condition**)

Control: TLog Reset Ack, Clear Bad Batt Ack, BCT Start Ack, BCT Stop Ack, BCT Enable Ack, BCT Disable Ack, Toggle Bat Ack, Reset Temperature Log, Clear Bad Battery, Start BCT, Stop BCT, Enable BCT, Disable BCT, Toggle BCT Batt.

Notice

Code	Type	Description
03006	Notice	Updating Information From Device With Address 1