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Victron Energy SCC115060211

Victron Energy SmartSolar MPPT Tr Solar Charge Controller (Bluetooth) 150V 60A User Manual

Model: SCC115060211

1. INTRODUCTION

The Victron Energy SmartSolar MPPT Tr Solar Charge Controller is designed to efficiently harvest energy from your solar panels and store it in your battery bank. Featuring Maximum Power Point Tracking (MPPT) technology, it ensures optimal power output even under varying light conditions. Integrated Bluetooth allows for convenient monitoring and configuration via the VictronConnect app. This manual provides essential information for the safe and effective use of your SmartSolar MPPT charge controller.



Figure 1: Victron Energy SmartSolar MPPT 150-60 Tr Solar Charge Controller highlighting lightning-fast efficiency, professional build quality, industry-leading monitoring, improved battery longevity, and charging synchronization.

2. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your SmartSolar MPPT charge controller. Ensure all connections are secure and follow local electrical codes.

2.1 Physical Dimensions

The controller measures 3.74 x 9.84 x 7.28 inches and weighs 7.72 pounds. Allow adequate space for ventilation, especially around the heat fins.



Figure 2: Product dimensions of the SmartSolar MPPT 150-60 Tr, showing measurements of 95mm (3.7"), 250mm (9.8"), and 185mm (7.3").

2.2 Wiring Connections

Connect your solar panels to the PV terminals and your battery bank to the BATTERY terminals. Ensure correct polarity. The controller supports 12/24/36/48-Volt battery systems.



Figure 3: Front view of the SmartSolar MPPT 150-60 Tr, showing the battery and PV input terminals, along with status LEDs for Bulk, Absorption, and Float charging stages.

2.3 Battery Type Configuration

The SmartSolar controller can be configured for various battery types, including Lithium, Lead-acid, AGM, Gel, and Flooded batteries. Use the VictronConnect app for easy configuration of battery presets.


VRM Remote Management

Always in perfect control

Upgrade your system with a communication center and unleash the power of the most advanced remote monitoring solution on the planet.







Monitor at a glance
analyse every detail



See power status
tank levels & temps



Pro-active system
safety alerts



Advanced generator
control



Actively maximises
system performance

Figure 4: The SmartSolar MPPT controller is compatible with various battery chemistries, including Lithium, Lead-acid, AGM, Gel, and Flooded types, offering automatic voltage selection and fully discharged battery recovery.

2.4 Installation Overview

Your browser does not support the video tag.

Video 1: An official overview of the Victron Energy MPPT SmartSolar Charge Controller, demonstrating its features and typical installation in a solar power system.

3. OPERATING INSTRUCTIONS

The SmartSolar MPPT controller is designed for ease of use, with advanced features accessible via the VictronConnect app.

3.1 VictronConnect App

The VictronConnect app allows you to monitor real-time data, view 30-day performance history, configure settings, update firmware, and set alarms. Connect to the device via Bluetooth.



Figure 5: The VictronConnect app provides a comprehensive interface for monitoring solar power input, battery voltage, current, and charge state.

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Video 2: Official video demonstrating the VictronConnect App for monitoring performance of Victron Energy products, including real-time data and historical trends.

3.2 Synchronized Charging

Multiple SmartSolar MPPT charge controllers can synchronize their charging stages to optimize battery longevity and system-wide energy management.



VictronConnect

The pocket powerhouse app

More than 1 million users worldwide



Local Bluetooth connection



30-day performance history



Hassle-free configuration



Instant solar insights



Figure 6: Illustration of multiple SmartSolar MPPT controllers working in synchronization to maximize charging efficiency and battery longevity.

3.3 Remote Management (VRM Portal)

For advanced monitoring and control, the Victron Remote Management (VRM) portal allows you to access your system data from anywhere with an internet connection. This enables remote diagnostics and adjustments.

Your browser does not support the video tag.

Video 3: Official video showcasing the Victron Remote Management (VRM) portal, demonstrating its capabilities for remote monitoring and management of Victron Energy systems.

4. MAINTENANCE

The SmartSolar MPPT controller is designed for durability and minimal maintenance. Regular checks can help ensure optimal performance.

4.1 Heat Dissipation

The controller features heat fins to dissipate heat. Ensure these fins are not obstructed to prevent overheating. The device also includes overtemperature protection.

4.2 Firmware Updates

Periodically check for and install firmware updates via the VictronConnect app to ensure your device has the latest features and performance enhancements.

5. TROUBLESHOOTING

The SmartSolar MPPT controller includes several protective features to prevent damage and assist in troubleshooting.

5.1 Safety Features

- **Temperature Compensated Charging:** Adjusts charging parameters based on temperature to protect batteries.
- **Overtemperature Protection:** Automatically reduces power output if the device gets too hot.
- **PV Short-Circuit Protection:** Protects against short circuits in the solar panel array.
- **PV Reverse Polarity Protection:** Prevents damage from incorrect solar panel wiring.
- **PV Reverse Current Protection:** Stops current from flowing back into the solar panels at night.
- **Pro-active Alarm Notifications:** Alerts you to potential issues via the VictronConnect app.

The advertisement features a dark blue background with the Victron Energy logo and the text "VRM - Remote Management" at the top. Below this, the headline "Always in perfect control" is prominently displayed. A sub-headline reads: "Upgrade your system with a communication center and unleash the power of the most advanced remote monitoring solution on the planet." The central image shows three devices displaying the VRM interface: a smartphone on the left showing battery and generator status, a laptop in the center showing a detailed installation data dashboard with a bar chart, and a tablet on the right showing a comprehensive overview of system metrics like battery, fuel, and generator levels. At the bottom, five icons represent key features: monitoring details, power status, safety alerts, generator control, and performance optimization.

VRM - Remote Management

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Figure 7: Overview of SafetyShield+ protection features, including temperature compensated charging, overtemperature protection, PV short-circuit protection, PV reverse polarity protection, PV reverse current protection, and pro-active alarm notifications.

5.2 Common Issues

If you experience issues, first check all wiring connections for tightness and correct polarity. Utilize the VictronConnect app to review system status, history, and trends for diagnostic information. The app can help identify if the issue is related to solar input, battery state, or load output.

6. SPECIFICATIONS

Feature	Value
Product Dimensions	3.74 x 9.84 x 7.28 inches
Item Weight	7.72 pounds
Item Model Number	SCC115060211
Brand	Victron Energy
Voltage	150 Volts (Max PV open circuit voltage)
Max Charge Current	60 amp
Battery Voltage	12/24/36/48-Volt (Auto-select)
Material	Plastic
Included Components	Victron Energy SmartSolar MPPT Tr 150V 60 amp 12/24/36/48-Volt Solar Charge Controller (Bluetooth)

7. WARRANTY

The Victron Energy SmartSolar MPPT Tr Solar Charge Controller is covered by a manufacturer's warranty. For specific details regarding warranty terms, duration, and claims, please refer to the official Victron Energy website or the documentation included with your product.

8. SUPPORT

For further assistance, technical support, or to find a local dealer, please visit the official Victron Energy website. The VictronConnect app and VRM portal also provide valuable resources for monitoring and managing your system.

The pocket powerhouse



One million active users for VictronConnect

Use the VictronConnect app to configure, monitor, update and diagnose your Victron product. It can connect to Victron products via Bluetooth, USB and WiFi/LAN/Internet.



Figure 8: The VictronConnect app is used by millions of users worldwide for system configuration, monitoring, and diagnostics.