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Victron Energy SBS050150200

Victron Energy Smart Battery Sense (Model SBS050150200) Instruction Manual

Wireless Battery Voltage and Temperature Sensor

PRODUCT OVERVIEW

The Victron Energy Smart Battery Sense is a wireless battery voltage and temperature sensor designed for use with Victron Energy MPPT Solar Chargers. This device enhances battery charging efficiency and extends battery life by providing accurate voltage and temperature data directly from the battery terminals.

Key features include:

- Wireless connectivity via VE.Smart Network (Bluetooth Smart).
- Improved charging efficiency and prolonged battery life through precise voltage and temperature sensing.
- Simultaneous data transmission to multiple compatible Solar Chargers (12V, 24V, 48V battery banks).
- Simple, quick, and tidy installation with eyelets for battery terminals and a self-adhesive strip for mounting.

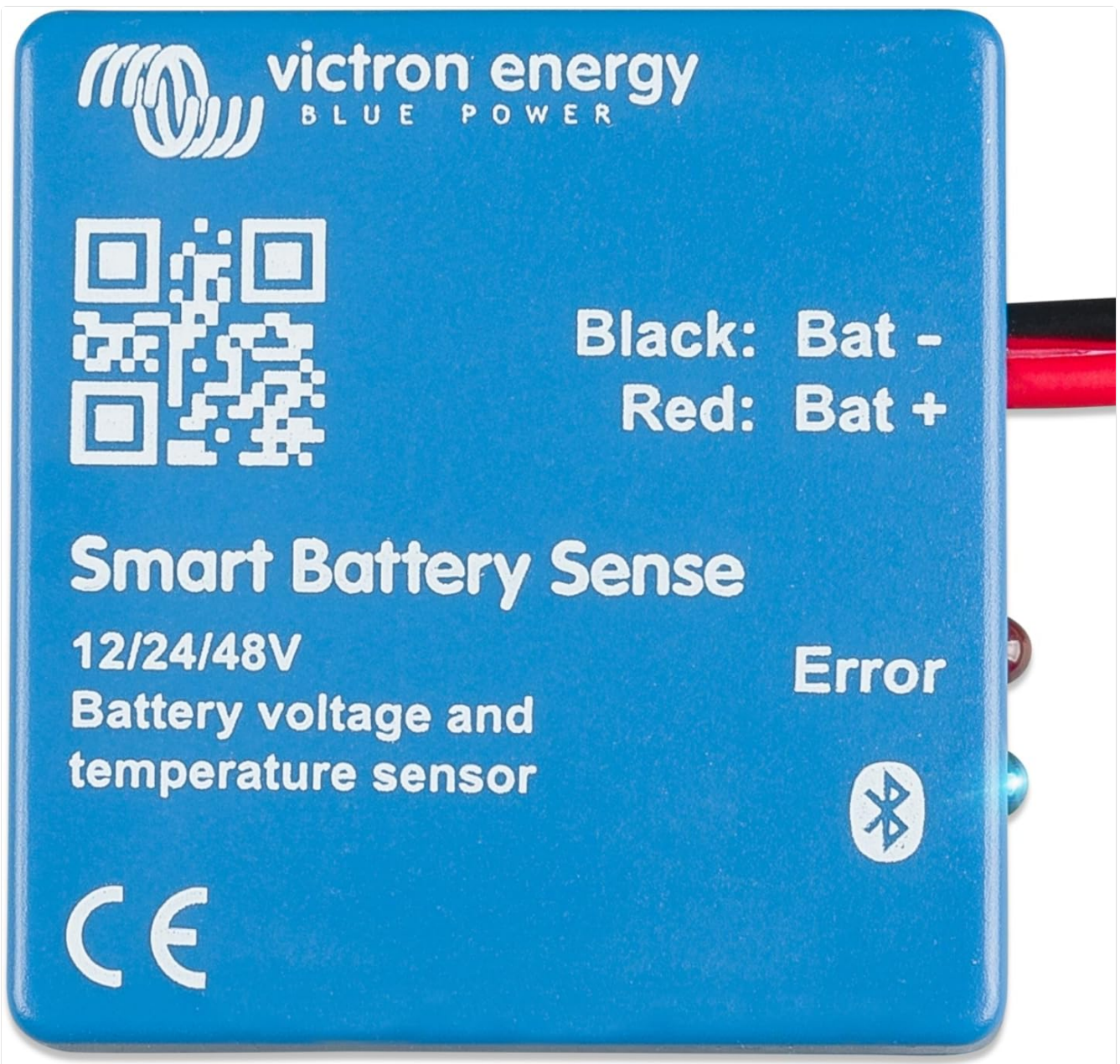


Image: The Victron Energy Smart Battery Sense unit, a compact blue device with red and black wires for battery connection.

SETUP AND INSTALLATION

1. **Prepare the Battery:** Ensure the battery terminals are clean and free from corrosion.
2. **Connect to Battery:** Attach the unit's two eyelets to your battery terminals. The red wire connects to the positive (+) terminal, and the black wire connects to the negative (-) terminal.
3. **Mount the Unit:** Use the self-adhesive strip on the back of the Smart Battery Sense unit to attach it directly onto the battery body. This ensures accurate temperature measurement.
4. **Power On:** Once connected, the blue LED on the Smart Battery Sense will start blinking, indicating it is powered up and ready for connection via Bluetooth.

BLUETOOTH 

Connect your phone or tablet



Image: The Smart Battery Sense unit connected to a battery, showing the red and black wires attached to the terminals.

DIMENSIONS

Compact size



Image: A diagram illustrating the compact dimensions of the Smart Battery Sense unit (38mm x 14mm x 38mm).

OPERATING THE SMART BATTERY SENSE

The Smart Battery Sense operates wirelessly using the VE.Smart Network, a Bluetooth Smart-based technology. Data is transmitted to compatible Victron Energy MPPT Solar Chargers to optimize charging parameters.

VictronConnect App Connectivity

To set up and monitor the Smart Battery Sense, use the VictronConnect app, available for both Android and iOS devices. This app allows you to create and join VE.Smart Networks.

1. **Download the App:** Search for "VictronConnect" in your device's app store and download it.
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone or tablet.
3. **Open VictronConnect:** Launch the app. It will scan for Victron products.
4. **Connect to Smart Battery Sense:** Select "Smart Battery Sense" from the discovered devices.
5. **Create VE.Smart Network:** In the Smart Battery Sense settings, navigate to "VE.Smart Networking" and select "Create Network." Give your network a name.
6. **Join Network with MPPT Charger:** Go back to the main menu, select your MPPT Solar Charger, go to its settings, then "VE.Smart Networking," and select "Join Existing." Choose the network you just created.

Once connected, the MPPT charger will receive accurate battery voltage and temperature data from the Smart Battery Sense, allowing it to adjust charging parameters for optimal performance.

BATTERY HEALTH

Prolong battery life

By measuring voltage at the battery bank terminals, errors arising from voltage-loss due to cable resistance are avoided - guaranteeing the correct charge-voltage.



Image: A smartphone screen showing the VictronConnect app interface with battery voltage and temperature readings from the Smart Battery Sense.

Official Product Videos

Victron Energy - Introducing the Smart Battery Sense

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Video Description: This official Victron Energy video introduces the Smart Battery Sense, explaining its purpose as a wireless battery voltage and temperature sensor for MPPT solar chargers. It highlights how the device improves charging efficiency and battery longevity by providing precise data.

VictronConnect App for monitoring performance

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Video Description: An official Victron Energy video demonstrating the VictronConnect app. It shows how the app is used to configure, monitor, update, and diagnose Victron products, including the Smart Battery Sense, via Bluetooth, USB, and WiFi/LAN/Internet connections.

VRM: Victron Remote Management portal for

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Video Description: This Victron Energy video provides an overview of the VRM (Victron Remote Management) portal, which allows for remote monitoring and management of Victron energy systems. While not directly showing the Smart Battery Sense, it illustrates the broader ecosystem for system oversight.

Victron Energy - How to get a readout from an MPPT with a VE.Direct Bluetooth Smart dongle

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Video Description: An official Victron Energy video demonstrating how to obtain a readout from an MPPT solar charge controller using a VE.Direct Bluetooth Smart dongle. This process is similar to how the Smart Battery Sense communicates with MPPT chargers.

MAINTENANCE

The Victron Energy Smart Battery Sense is designed for minimal maintenance. Periodically check the connections to the battery terminals to ensure they are secure and free from corrosion. Keep the unit clean and dry.

For optimal performance, ensure the VictronConnect app and the device firmware are updated to the latest versions.

TROUBLESHOOTING

• No Bluetooth Connection:

- Ensure Bluetooth is enabled on your mobile device.
- Verify the Smart Battery Sense is correctly wired to the battery terminals (red to positive, black to negative).
- Check if the blue LED on the unit is blinking. If not, recheck wiring.
- Ensure your mobile device is within Bluetooth range (up to 10m).

• Incorrect Readings:

- Confirm the unit is securely mounted directly onto the battery for accurate temperature sensing.
- Verify battery terminal connections are clean and tight.

• VE.Smart Network Issues:

- Ensure both the Smart Battery Sense and the MPPT Solar Charger are configured to the same VE.Smart Network within the VictronConnect app.
- Smart Battery Sense is not needed, or allowed, in systems which are already controlled by a Color Control GX or Venus GX.
- Smart Battery Sense is not needed for installations which already have a BMV-712 (battery monitor) with a temperature sensor accessory.

SPECIFICATIONS

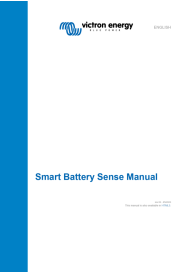
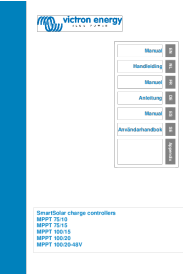
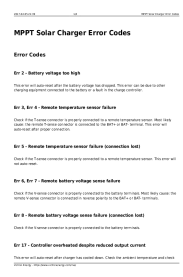


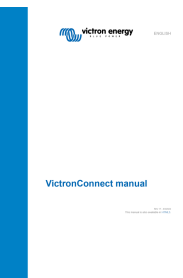
Feature	Detail
Brand	Victron Energy
Model Name	Victron Energy Smart Battery Sense, Voltage and Temperature Sensor, Long Range (up to 10m)
Part Number	SBS050150200
Voltage Compatibility	12V, 24V, 48V (DC)
Connectivity	VE.Smart Network (Bluetooth Smart)
Item Dimensions (LxWxH)	1.5 x 0.55 x 1.5 inches (38 x 14 x 38 mm)
Item Weight	0.1 Pounds (0.05 Kilograms)
Material	Plastic
Display Type	No Display
First Available	June 24, 2019

WARRANTY

This product is covered by a manufacturer's warranty. For detailed information regarding the warranty period and terms, please refer to the official Victron Energy warranty documentation included with your product or visit the Victron Energy website.

SUPPORT

For technical assistance, troubleshooting, or further inquiries, please contact your authorized Victron Energy dealer or visit the official Victron Energy support website. You can also find additional resources and FAQs on their website. Visit the [Victron Energy Store](#) for more products and information.

	<p>Victron Energy Smart Battery Sense Manual - Wireless Battery Monitoring</p> <p>Comprehensive user manual for the Victron Energy Smart Battery Sense, a wireless battery voltage and temperature sensor for MPPT Solar Chargers. Covers installation, configuration, LED status codes, troubleshooting, and technical specifications for optimizing solar charging systems.</p>
	<p>Victron Energy SmartSolar MPPT Charge Controllers Manual</p> <p>User manual for Victron Energy SmartSolar MPPT charge controllers (models 75/10, 75/15, 100/15, 100/20, 100/20-48V). Covers features like Bluetooth Smart, VE.Direct, MPPT tracking, load output, battery management, installation, safety, and troubleshooting.</p>
	<p>MPPT Solar Charger Error Codes - Victron Energy</p> <p>Comprehensive guide to MPPT Solar Charger error codes from Victron Energy, detailing common issues, causes, and troubleshooting steps for SmartSolar models.</p>
	<p>Manuel du chargeur solaire Victron Energy SmartSolar MPPT 100/30 & 100/50</p> <p>Manuel d'utilisation détaillé pour les chargeurs solaires Victron Energy SmartSolar MPPT 100/30 et 100/50. Couvre l'installation, la configuration, le fonctionnement, le dépannage et les spécifications techniques pour une gestion optimale de l'énergie solaire.</p>
	<p>Victron BlueSolar MPPT Charge Controllers: MPPT 75/10, 75/15, 100/15, 100/20-48V Datasheet</p> <p>This document provides technical specifications and features for Victron Energy's BlueSolar MPPT charge controllers, including models MPPT 75/10, 75/15, 100/15, and 100/20-48V. Learn about their ultra-fast MPPT technology for maximum solar energy harvest, intelligent Battery Life management, load output capabilities, and connectivity options.</p>
	<p>VictronConnect App Manual: Configuration, Monitoring, and Updates</p> <p>A comprehensive guide to the VictronConnect app, detailing how to configure, monitor, update, and diagnose Victron products. Covers connectivity, device compatibility, firmware management, settings, and troubleshooting for Windows, macOS, Android, and iOS platforms.</p>