

# Smart Battery Sense manual

## 1. Introduction

The Smart Battery Sense is a wireless battery voltage- and temperature- sensor for Victron MPPT Solar Chargers.

The Solar Charger uses these measurements to optimize its charge parameters. This will improve charging-efficiency and prolong battery life.

The connection between the Smart Battery Sense and the Solar Charger(s) wireless: VE.Smart Network, a wireless technology that is based on Bluetooth Smart.

Simple to install & configure, the Smart Battery Sense comes with an inline fuse and pre-crimped eyelets. And adhesive tape on the back, to mount it on the battery.

### System design & component selection

- Check the [VE.Smart Networking compatible products list](#) for compatible Solar Chargers.
- The Smart Battery Sense is not needed, nor allowed, in systems that also have a Color Control GX or Venus GX, see [FAQ Q6](#) for more info.
- The Smart Battery Sense is not needed for installations that already have a BMV-712 with its temperature sensor accessory.
- For installations with a BMV-702 + temperature sensor accessory, consider adding a [VE.Direct Bluetooth Smart dongle](#) instead of a *Smart Battery Sense*.

## 2. Installation

Connect the unit's two eyelets to your battery terminals and attach it directly onto the battery-body using its self-adhesive strip.

For battery banks consisting of multiple individual batteries, connect the Smart Battery Sense unit on any one of the batteries.

In case the supplied bat+ and bat- cables are not long enough, their length can be increased. Make sure to use the same, or thicker, gauge cable.

## 4. Configuration

See this below video. Also, see the step by step procedure as documented in the [ve-smart-networking](#) manual.



## Video

### 5. Trouble shooting

See both the [VictronConnect manual](#) and the [VE.Smart Network manual](#).

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