

## Solar Energy South Africa

# Solar assistant jk bms Morocco



## Overview

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This guide is for the original JK BMS. See our JK inverter BMS guide if you have their newer "JK PB" BMS range.

The typical setup requires the two components below. We do not sell any of them. 1. JK BMS RS485 module 2. USB RS485 adapter (ensure it's not TTL). We recommend Ftdi chip adapters. Note you can also use a USB TTL adapter instead of the two adapters above.

On the SolarAssistant configuration page, select the protocol below. Select one or more USB cables and click connect: Plug the RS485 USB cable into the SolarAssistant monitoring device. Once you click "connect" on the configuration page, you should see each.

How do I connect a JK BMS to solarassistant?

Select one or more USB cables and click connect: Plug the RS485 USB cable into the SolarAssistant monitoring device. Once you click "connect" on the configuration page, you should see each BMS show up as a battery pack as shown below. One pack will be shown for each JK BMS connected in step 2 above. How to connect a JK BMS to SolarAssistant.

How accurate is solarassistant BMS?

Let SolarAssistant perform its own state of charge (SoC) calculation by counting power flowing in and out of the battery. This is a good fallback option for anyone who can't get a real BMS reading. It's less accurate than a Victron BMS but much more accurate than the standard voltage based readings of an inverter.

How do I connect RS485 to my solarassistant monitoring device?

On the SolarAssistant configuration page, select the protocol below. Select one or more USB cables and click connect: Plug the RS485 USB cable into the SolarAssistant monitoring device. Once you click "connect" on the configuration page, you should see each BMS show up as a battery pack as shown below.

Does esphome support solar assistant?

ESPHome component to monitor and control a Jikong Battery Management System (JK-BMS) via UART-TTL or BLE - syssi/esphome-jk-bms Adding support to Solar Assistant should not be an issue. Click to expand. I would like to sincerely thank you for sharing the functionality freely and not asking money for it.

Does ESP32 work with JK-BMS?

This ESP32 is monitoring the JK-BMS as is in the picture. (I'll mount it later) through bluetooth. Love ESP technology! Would you be able to say how you got the ESP32 working with your JMS into Home Assistant?

I'd love to sort that out - have the parts here! Would you be able to say how you got the ESP32 working with your JMS into Home Assistant?

## Solar assistant jk bms Morocco



### [Connecting a EG4 inverter](#)

Configuration CAN bus CFE battery Daly BMS Dyness / Mecer EG4 Felicity Solar Giter JK BMS JK inverter BMS JBD / Overkill BMS Revov Seplos BMS Shoto BMS SOK SolarMD SunSynk Trophy Vestwood. Grid. Home Assistant. Setup Broker setup Energy dashboard Adjusting solar settings. Integration. MQTT API Node-RED. Software updates. Overview Changelog

### [Troubleshooting](#)

Troubleshooting. Are you seeing the page below when accessing your site? This guide will help you identify the root cause of the problem. The inverter and battery connection does not affect whether your site is reachable so you don't have to ...



### **Solar Assistant integration of two batteries (two JK BMS)**

I have a Growatt SPF5k inverter with two Lifepo4 batteries, each controlled by it's own BMS (JK 100A). I there a way to connect both BMS's to Solar Assistant? Currently it's only one connected via RS485 dongle and the details aren't accurate (-50%). Option would be to use inverter settings but I don't want to lose the details provided by the BMS.

### **Solar Assistant and two JK bms's , DIY Solar Power Forum**

Basically the question is; Can Solar Assistant plug and play from two JK bms's (JK-B2A20-20P) or is it just easier and better to combined both battery outputs through one Victron smart shunt(not purchased) to the SA? wattmatters Solar Wizard. Joined Apr 16, 2021 Messages 4,156 Location



## YamBMS JK-BMS-CAN with new Cut-Off Charging Logic (open

...

It's currently connected to solar assistant via USB. G. goldserve Solar Enthusiast. Joined Apr 26, 2022 Messages 557. Oct 29, 2024 #2,278 You do need one other JK BMS connected via BLE or RS485 or UART TTL for the YAM BMS to function. Reactions: Fahmula. G. goldserve Solar Enthusiast. Joined Apr 26, 2022 Messages 557.

## [Is my inverter supported?](#)

Configuration CAN bus CFE battery Daly BMS Dyness / Mecer EG4 Felicity Solar Giter JK BMS JK inverter BMS JBD / Overkill BMS Revov Seplos BMS Shoto BMS SOK SolarMD SunSynk Trophy Vestwood. Grid. Eskom Europe. Home Assistant. Setup Broker setup Energy dashboard Adjusting solar settings. Integration. MQTT API Node-RED. Software updates



## [Seplos BMS setup in SolarAssistant](#)

Protocol selection. On the SolarAssistant configuration page, select the protocol below. USB cable. You can use our seplos BMS cable or create your own by using a USB RS485 adapter with the cable crimped into a RJ45 plug

according ...



## Monitoring Software-Solar Assistant, JK-BMS, ESPHome and Home Assistant

- 2 LV6548's, and Victron smart shunt using Solar Assistant. - Finally after all this time! an easy way to monitor my JK-BMS 2amp balancer using ESPHome (Bluetooth Version install) that I found here. The JK-BMS monitoring was the last piece of the puzzle and I have screwed around for many many hours to only be disappointed until now.



### [Connecting a SOK battery](#)

Configuration CAN bus CFE battery Daly BMS Dyness / Mecer EG4 Felicity Solar Giter JK BMS JK inverter BMS JBD / Overkill BMS Revov Seplos BMS Shoto BMS SOK SolarMD SunSynk Trophy Vestwood. Grid. Home Assistant. Setup Broker setup Energy dashboard Adjusting solar settings. Integration. MQTT API Node-RED. Software updates. Overview Changelog

### [Seplos BMS setup in SolarAssistant](#)

Protocol selection. On the SolarAssistant configuration page, select the protocol below. USB cable. You can use our seplos BMS cable or create your own by using a USB RS485 adapter

with the cable crimped into a RJ45 plug according the pinout as depicted in the manual. Only one cable is required to monitor all batteries in parallel.

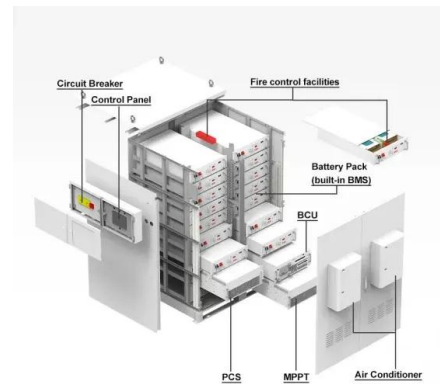


[Shoto / Rentech RS485](#)

Morocco USD Courier: DHL/Fedex/Passport 14-21 days  
 Mozambique USD Courier: DHL/Fedex/Passport 14-21 days  
 Seplos BMS; Shoto SDA10 and SDC10-Box; Rentech BTESF; Trophy 48V range; Vestwood VT range; Specification: USB to RJ45; RS485; Original FTDI chip; Length: 1.8m; Shielded;

[Monitor JK BMS with Solar Assistant?](#)

Thank you for all recommendations that was written in this thread. Using them I just putt together 3 phase system with the Easun 8kW and 4 JK-BMS to Raspberry Pi4 with Solar Assistant. For the inverter connection using regular USB-A->miniUSB. For the JK BMS using USB TTL (PL2303) connected to the GPS port of the BMS. All working good and show



[JK inverter BMS setup in SolarAssistant](#)

Connecting the JK inverter BMS Overview. This guide is for the newer JK inverter BMS, also known as the JK PB BMS range. See our original JK BMS guide if you have their older original BMS. Battery communication cable. Use a Seplos ...



## Revov battery setup in SolarAssistant

Revov R9/C8 - CAN BMS or Pace BMS. This battery has a telephone size RS232 port similar to the R100 above. Use the BSL Bull / Hubble AM RS232 cable. Select the USB to Serial protocol in SolarAssistant. SolarAssistant and an inverter can read the battery at the same time. Revov R9/C8 - DR BMS. Support for this battery is under development.



## **Configuring your battery in SolarAssistant**

Home Assistant. Setup Broker setup Energy dashboard Adjusting solar settings. Integration.  
 JBD BMS UART/RS485 Overkill Solar BMS  
 UART/RS485 QUCC BMS UART/RS485: USB JK  
 RS485: JK BMS RS485: USB Modbus  
 RS232/RS485: Averde CH48/LFeLi range RS485  
 port EG4 LIFEPOWER4 (with LCD) RS485 port

## Troubleshooting

Troubleshooting. Are you seeing the page below when accessing your site? This guide will help you identify the root cause of the problem. The inverter and battery connection does not affect whether your site is reachable so you don't have

to spend any effort on adjusting it. SolarAssistant continues to monitor your inverter and battery regardless of whether the network and internet is



### [Create a custom RS485 or RS232 cable](#)

Follow this guide to create a custom RS232 or RS485 cable to connect your solar hardware to SolarAssistant. Configuration CAN bus CFE battery Daly BMS Dyness / Mecer EG4 Felicity Solar Giter JK BMS JK inverter BMS JBD / Overkill BMS Revov Seplos BMS Shoto BMS SOK SolarMD SunSynk Home Assistant. Setup Broker setup Energy dashboard



### [CAN bus setup with SolarAssistant](#)

Configuration CAN bus CFE battery Daly BMS Dyness / Mecer EG4 Felicity Solar Giter JK BMS JK inverter BMS JBD / Overkill BMS Revov Seplos BMS Shoto BMS SOK SolarMD SunSynk Trophy Vestwood. Grid. Home Assistant. Setup Broker setup Energy dashboard Adjusting solar settings. Integration. MQTT API Node-RED. Software updates. Overview Changelog



### **18KPV Follow Up with JK Inverter BMS , DIY Solar Power Forum**

The JK BMS simply worked...first time with no headaches. Next step will be to add Solar Assistant so I can have access to the JKs



remotely. I got a bit spoilt with web remote access to the BMS when I was using the Daly with their wifi dongle. I think wifi is the only thing the JKs are missing. Other than that, the JKs are working really well.

## BMS\_BLE-HA Home Assistant Integration for

Monitoring Software-Solar Assistant, JK-BMS, ESPHome and Home Assistant DanF; Nov 30, 2022; Software; 2 3. Replies 73 Views 17K. Jul 10, 2023. Jazzmonger. Share: Facebook LinkedIn Reddit Email Share Link. Energy Storage. BMS (Battery Management Systems) System Light Dark Terms and rules;



## Transfer site to new owner in SolarAssistant

Our recommended procedure for solar installers it to set up new client sites under your own account, then transfer the site to the client once it's ready. After completing the steps below, you will still have administrator access to the site. The new owner of the site will have the ability to remove your access. Step 1

## Real-time solar monitoring from a Raspberry Pi , SolarAssistant ...

Modern, real-time solar monitoring and control from a Raspberry Pi. Get the most out of your solar investment with our sleek, modern, robust

and powerful platform. Open Data with Home Assistant integration. Integration and automatic discovery for Home Assistant. Integrate your own custom projects via MQTT. Community videos



### [Daly BMS setup in SolarAssistant](#)

No further setup is required. If you are unable to read your Daly BMS, see troubleshooting below. Advanced - Reading multiple Daly BMSs with a single RS485 USB cable. Connect a single Daly BMS to a laptop with the official Daly BMS software. Set a unique board number for each BMS.

## How-to? Monitor Solark, victron shunt, jk bms

Solar assistant will see multiple JK's at a time. You can use the Smart shunt as a stand alone to verify/confirm the bms/Solar assistant data. JK's can be dialed in for very accurate SOC. As far as I know bms brand mixes or bms plus shunts won't work together with Solar Assistant.



### [Monitor JK BMS with Solar Assistant?](#)

I do (I don't have JK BMS though). I have it connected using the Victron cable to my Solar Assistant Raspberry Pi. It works and was easy to set up but there are some issues with the data in SA. The battery dashboard shows the data from the Victron Smart Shunt correctly but not all the data is making it to the charts tab, e.g.

## SolarAssistant

Configuration CAN bus CFE battery Daly BMS  
Dyness / Mecer EG4 Felicity Solar Giter JK BMS JK  
inverter BMS JBD / Overkill BMS Revov Seplos  
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## **Multi BMS Design · Uksa007 esphome-jk-bms-can · ...**

Future plans is to allow a mix of JK-BMS and  
JBD/Overkill to be slaves, currently just JK-BMS in  
the Alpha stage. Solar assistant and ESP32  
during setup work I want to thank Uksa007 for  
his work, it looks very solid now and im  
comfortable ...

## **Contact Us**

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For catalog requests, pricing, or partnerships, please visit:  
<https://ian-solar.co.za>