

SRL Solar Setup Guide



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Introduction

The Solar lid and assembly once complete is ready to plug into various assets and also has the potential to connect to a variety of batteries. The aim of this document is to aid the successful setup of the solar regulator which is housed within the solar box.

This setting up can be achieved via remotely accessing using a smart device over Bluetooth connection. The Bluetooth name of the regulator is to match the asset number assigned to the Solar lid assembly.

Connecting to and setting up the Victron Energy Smart Solar Charge controller MPPT 75 / 10

Ensure that initially only one solar panel is powered up for connection and setup before powering the next one. This will enable you to setup the correct solar regulator and its associated fleet number.

Download the Victron Connect which has this symbol.

Ensure your Bluetooth is on and open the application, search Device list – Local – look for SmartSolar ***** MPPT 75/10.

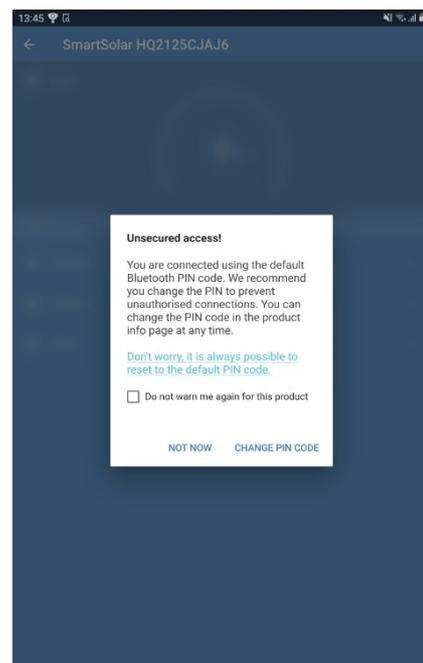
Select the equipment you want to set up and wait while it connects. Enter the default pin – 000000 and again wait while it further connects.



If a prompt to update firmware appears then click yes.

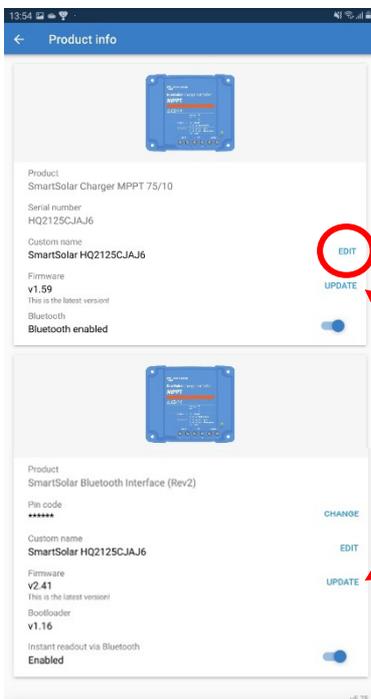
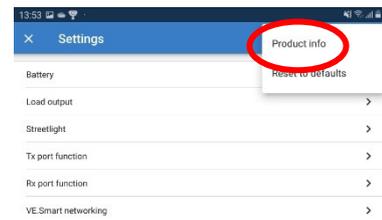
You will then come across this message which is giving you the opportunity to change the devices PIN code.

Select Change Pin Code and change it to the fleet number provided to the solar assembly – all digits in the fleet number starting with a 0 as it has to be a 6 digit pin number.





Select settings in the top right of the screen followed by the 3 inline dots in the top right, followed by Product info.



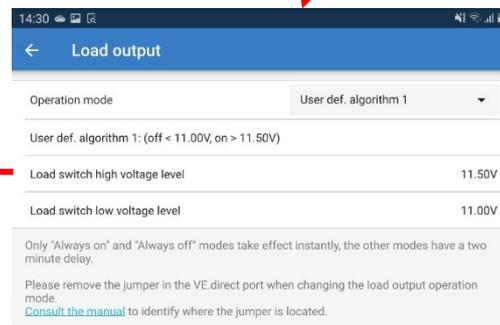
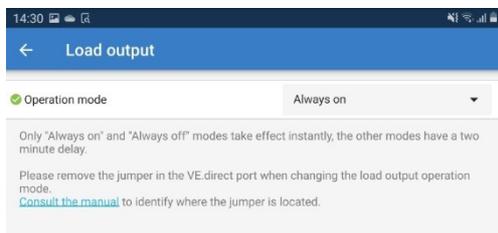
In Product info the top custom name is to be change by clicking edit.

Change the name of this device to match the fleet number provided to the solar assembly including any letters and numbers.

While on this page it is good practice to select both updates to ensure all firmware is up to date.

Once complete, navigate back to the settings page.

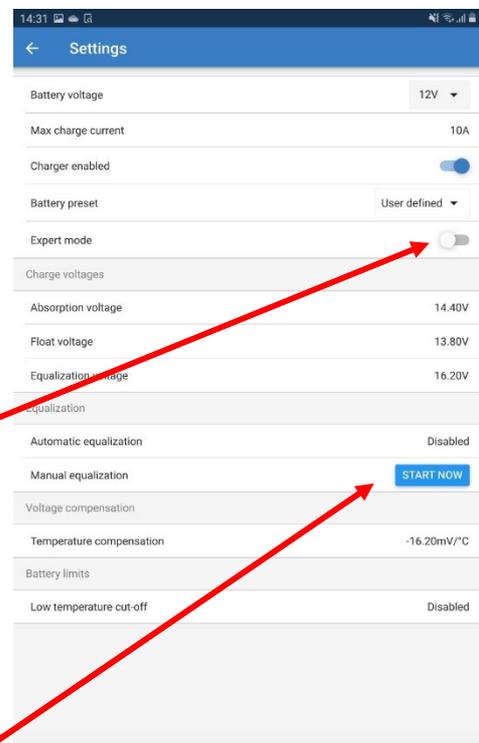
Select Load Output and ensure Operation mode is selected too Always on.



Once complete, navigate back to the settings page.

The final step is to input all the Battery information to ensure optimised charging of the battery.

Select Battery to reveal the following list -



Activate Expert Mode

Use the following table to populate this page according to which battery is being used with this system.

Don't click Start Now

	Yellow Top SRL battery	AGM 12/100
Max Charge Current – ?	10a	10a
Charge Voltages		
Absorption Voltage – ?	14.4-14.8V	14.1- 14.4V
Float Voltage – ?	13.5V	13.5- 13.8V
Equalization Voltage – ?	16.2V	14.1- 14.4V
Bulk		
Re-bulk voltage offset – ?	0.4V	0.4V
Absorption		
Absorption duration – (adaptive or fixed) ?	adaptive	adaptive
Maximum absorption time – ?	6 hrs	8 hrs
Tail current – ?	2.0a	≤3a
Equalization		
Equalization current percentage – ?	8%	8%
Automatic equalization – (periodically / disabled) ?	disabled	3 months
Equalization stop mode – (Auto / Fixed time) ?	Auto	Auto
Maximum equalization duration – ?	1h 0m	1h 0m
Voltage Compensation		
Temperature compensation – ?	-16mV/°C	-25mV/°C
Battery Limits		
Low temperature cut-off – (enable / disable) ?	Disable	Disable

Navigate back to home screen and it will save data automatically.

Finally, you need to connect to the Global Link device that is in the solar box, this is again done via Bluetooth using the Victron Connect app with default pin 000000

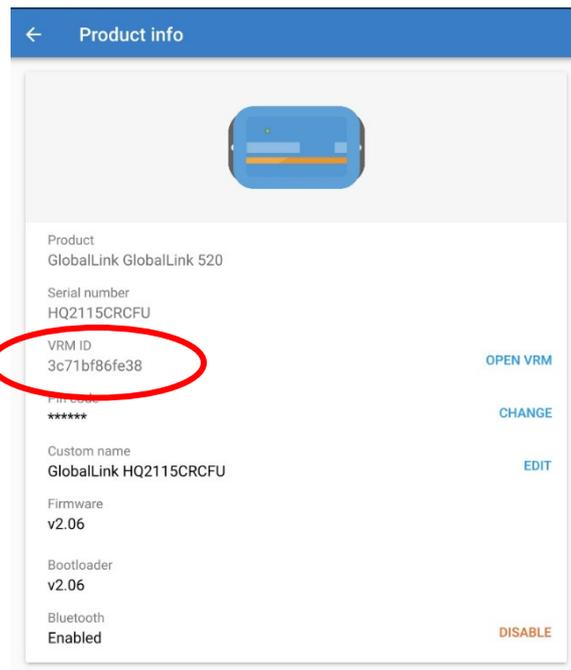
Select Change Pin Code and change it to the fleet number provided to the solar assembly – all digits in the fleet number starting with a 0 as it has to be a 6 digit pin number.

Navigate through settings and Product info to find the VRM ID.



This ID needs to be provided to Technical along with the Fleet number it is associated with.

Sometimes it can take a while for the global link to gain connection and provide a VRM ID.



Change the name of this device to match the fleet number provided to the solar assembly including any letters and numbers.

Ensure correct warning label is secured to the inside of the solar lid according to the setup of the battery details – Yellow Top SRL battery / AGM.

Setup is now complete

