

## 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.







13:53 🛥 🖬 🦞 -			
	SmartSolar	HQ2125CJAJ6	*
			TRENDS
		<b>0</b> w	
			0.01V
			0.0A
			12.19V
			0.00A
			Off
		Why is the charger off?	
			On
			0.0A
			ow

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

13:53 🗳 👄 🏆		1 mm
× Settings	8 ± •	:
Battery		>
Load output		>
Streetlight		>
Tx port function		>
Rx port function		>
VE.Smart networking		>

3:53 🖬 👄 🏆	48 °
× Settings	Product info
Battery	Reservo defaults
Load output	>
Streetlight	>
Tx port function	>
Rx port function	>
VE.Smart networking	>



Once complete, navigate back to the settings page.





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				•	±	<	
		Battery					
Select Load O	utput and ensure Operation mode is	Load output					
selected too A	Always on.	Streetlight					
		Tx port function					
		Rx port function					
		VE.Smart networking					
14:30 🖬 🛥 🗟	¥ो रू ता ≜ Opera	ion mode	User def. algorithm 1		-		
		of algorithm 1: $(aff < 11, 00)$ on > 11, 50)	/)				
Operation mode	User d	er. algonalin 1. (on < 11.000, on > 11.000					
minute delay.	Always on  Load a	witch high voltage level		11.5	50V		
Please remove the jumper in the VE direct port when changing the load output operation mode. <u>Consult the manual</u> to identify where the jumper is located.		witch high voltage level		11.5	50V )0V		
Consult the manual to identify whi	Always on Load a User of Load a E.direct port when changing the load output operation are the jumper is located.	er, auguntin Fr. Gor e Fr. Gor, Gr 2 Fr. Gor witch high voltage level witch low voltage level ways on° and "Always off" modes take eff delay.	fect instantly, the other modes h	11.5 11.0 ave a tw	50V )0V 0		

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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.

	← Settings	← Settings				
Select Battery to reveal the following lis	t – Battery voltage	12V 👻				
	Max charge current	10A				
	Charger enabled	-				
10-50 ⊡ ± 500 . ¥1≎ J≜	Battery preset	User defined 💌				
× Settinas	Expert mode	- ()=				
	Charge voltages					
Battery	Absorption voltage	14.40V				
Load output >	Float voltage	13.80V				
Streetlight >	Equalization	16.20V				
Tx port function	equalization					
Rx port function >	Automatic equalization	Disabled				
VE.Smart networking	Manual equalization	START NOW				
	Voltage compensation					
	Temperature compensation	-16.20mV/°C				
Activata Export Mada	Battery limits					
	Low temperature cut-off	Disabled				
Use the following table to populate this according to which battery is being used system.	page d with this					
Don't click Star	t 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.



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





### Record of changes

Version	Revision	Author	Description of Changes
А	0.1	Adam Shier	Internal Draft
А	0.1	Nick Yardley	Document Check
А	1.0	Adam Shier	Initial Release

The revision history of this document is shown below:

Document: SRL Solar Setup Guide Document Version A.1.0

