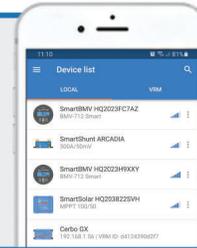**Bluetooth**

1) Open VictronConnect and scan for bluetooth.

2) The first time you connect, the app will ask to pair with a Victron product. Enter your PIN code. The default PIN code is 000000.

3) If prompted to update, install the update. This is normal and updates to the app or firmware should always be done.

4) Once complete, you will reach the home screen for your Victron device.

Battery Monitoring

SmartShunt Settings

1) Once paired with the Smart Shunt you will be brought to a home screen. The settings are accessed by clicking on the (⚙) icon at the top right of the home page. The settings page provides access to view or change the settings of the Battery Monitor.

2) This process is very important for accurate app readings and good battery life. Make sure when installing batteries, the following items are correct and comply with the battery manufacturer's settings.

3) The SmartShunt is configured with preset battery charge algorithms and can easily be modified. **NOTE:** (*Gel Victron Deep Discharge 1*) battery type is the default setting preferred for lead acid batteries.

RECOMMENDED SETTINGS	Lead Acid	AGM	Lithium
Battery Capacity	Total Ah	Total Ah	Total Ah
Charged Voltage (V)	13.4	13.1	14.1
Discharge Floor	50%	50%	0%
Tail Current	4%	2%	3.5%
Peukert Exponent	1.25	1.1	1.05
Charge Efficiency	94%	97%	99%
Battery Starts Synchronized	Uncheck	Uncheck	Uncheck

Battery capacity	510Ah
Charged voltage	14.1V
Discharge floor	0%
Tail current	3.50%
Charged detection time	3m
Peukert exponent	1.05
Charge efficiency factor	99%
Current threshold	0.10A
Time-to-go averaging period	3m
Battery starts synchronized — Battery SOC after a reset will be 100%.	
State-of-Charge — Manually set the current state-of-charge	100.0%
Synchronize SOC to 100%	SYNCHRONIZE
Zero current calibration	CALIBRATE

Solar Charging

Solar Controller Settings

1) Once paired to your MPPT solar controller, you will be taken to the home screen. The settings page is accessed by clicking on the (⚙) icon in the top right. This page provides access to view or change the settings of the battery and other features.

2) The SmartSolar Controllers are configured with preset battery charge algorithms and can easily be modified. **NOTE:** (*Gel Victron Deep Discharge 1*) battery type is the default setting preferred for lead acid batteries.

3) When installing batteries, add the total Amp hours together and place the value in the "Total Ah" box (next to battery capacity) for specific battery type.