

 Fuse

- Negative Black

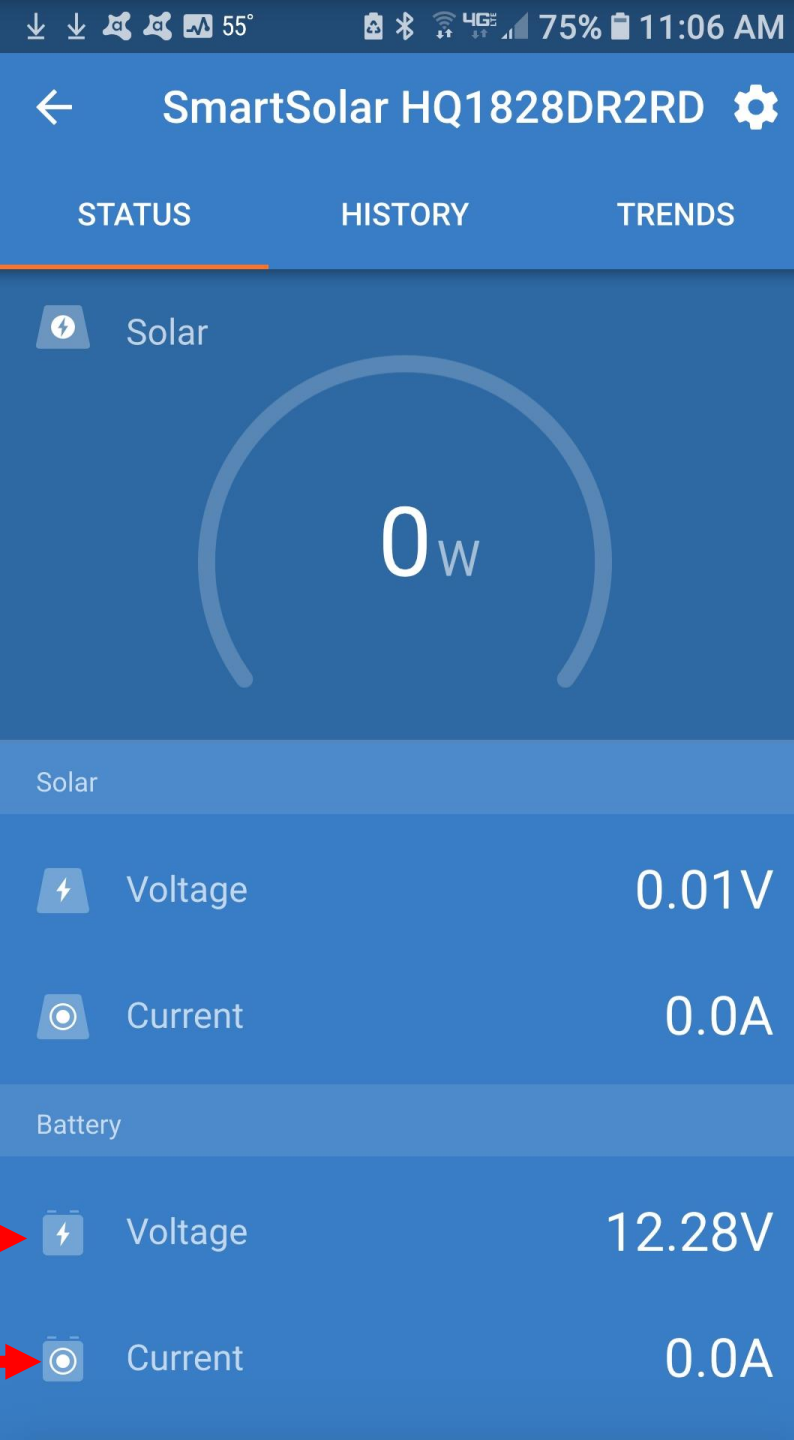
+ Positive Red

# Question

Current problem: When ALL power inputs are disconnected, solar and shore power, the controller shows NO Current drain.

By the way, this shows battery voltage after sitting 24 hours +, without input from solar or shore

NO Current drain



# FACTS

With voltmeter in DC mode:

Voltage of battery when (+) probe on (+) battery cathode and (-) probe on (-) battery anode

12.33

Voltage Meter reading when (+) probe on (+) battery cathode and (-) probe is applied to the trailer frame

12.33

Voltage Meter reading when (+) probe on trailer frame and (-) probe on (-) battery anode

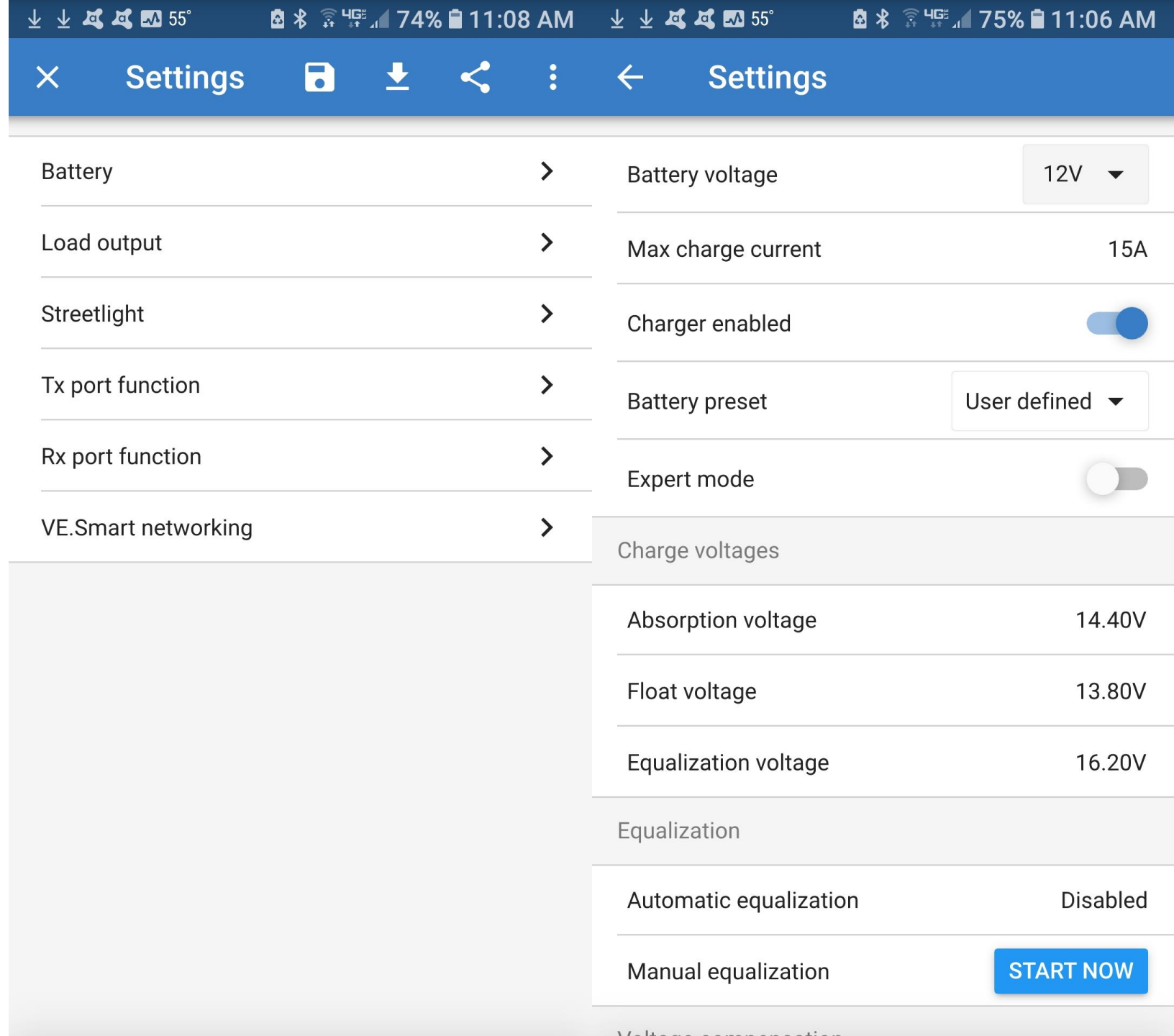
2.5

# SOLUTIONS?

Software options

These pictures show the settings option on the software/app.

Streetlight is not relevant



# DATA

When solar is plugged in with NO shore power we get a reading on the CURRENT coming into the battery

State is Bulk

The image shows a mobile application interface for a SmartSolar HQ1828DR2RD. The interface is divided into sections for Solar, Battery, and Load output. The Solar section shows a power output of 4W. The Battery section shows a voltage of 12.30V, a current of 0.3A, and a state of Bulk. The Load output section shows a state of On. Red arrows point from the text on the left to the current and state values in the Battery section.

Category	Parameter	Value
Solar	Power	4W
	Voltage	14.47V
	Current	0.3A
Battery	Voltage	12.30V
	Current	0.3A
	State	Bulk
Load output	State	On

# DATA

When shore power is plugged in with NO solar power we get NO reading on the CURRENT coming into the battery

State is OFF

The screenshot shows the SmartSolar HQ1828DR2RD mobile application interface. The top status bar displays system icons, temperature (58°), Bluetooth, 4G LTE signal, 64% battery, and time (12:09 PM). The app title is 'SmartSolar HQ1828DR2RD' with a settings gear icon. Below the title are three tabs: 'STATUS' (selected), 'HISTORY', and 'TRENDS'. The main display area is divided into several sections:

- Solar:** Shows 'Solar' power at 0W, 'Voltage' at 0.01V, and 'Current' at 0.0A.
- Battery:** Shows 'Voltage' at 12.98V, 'Current' at 0.0A, and 'State' as 'Off'.
- Load output:** Shows 'State' as 'On' and 'Current' at 0.0A.

Red arrows from the text on the left point to the 'Current' and 'State' values in the Battery section of the app.

Category	Metric	Value
Solar	Solar	0W
	Voltage	0.01V
	Current	0.0A
Battery	Voltage	12.98V
	Current	0.0A
	State	Off
Load output	State	On
	Current	0.0A

**Hence my question posted on the forum:**

**I can't read discharge battery current**

MPPT 75/15

Not connected to solar or shore power and fan speed 3 doesn't register as - current in the battery field.  
ANY configuration NEVER shows - current. When solar is added I see + current.

Installation is EXACTLY as described in the manual and quick start diagram

In addition I have a BVM 712 connected and I get the same results under the same configurations as above.

Can this controller even show - current?