



**BATTERY MONITOR** 

### **Electrical Connections:**

NOTE: Given the multitude of different applications for which this monitor can be used, the correct gauge of wire to be used is not specified. If you are unsure of the correct gauge for your setup, please consult a qualified automotive electrician or contact AIMS POWER technical support for advice.

## As shown in figure 3:

- 1. Connect the "**B**-" terminal of the shunt by running a cable to the negative terminal of the battery.
- Connect all the load and charger negative cables to the "P-" terminal of the shunt, or if these cables are combined onto a bus bar or fuse box, then run a cable from the bus bar or fuse box.
- Connect the sense wire to one of the two terminals marked "B+" on the shunt, and connect the ring connector to the positive terminal of the battery.
- Finally, connect the monitor's shielded display cable (already attached to the display) to the shunt.



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## Preparation Steps:

Fully charge the battery bank to 100% SOC. Failure to take this step will lead to erroneous SOC readings.

#### Setting Up The Battery Monitor:

- Ensure the battery display indicates the discharge current and the charge current correctly. Use the charge and discharge indicators to ensure it is capturing the appropriate current direction (in/out).
- 2. Ensure that the battery voltage is displayed correctly.
- 3. Fully charge the battery bank such that it reaches 100% SOC.
- 4. To initialize the capacity, press the % button for three
- seconds to set the capacity to 100%. 5. To enter the capacity, press the A/Ah button for three
- seconds. Use the V button and the % button to increase or decrease the capacity. Press the A/Ah button when done. 6. For parallel connections:
- Enter the total capacity of the system by adding the capacities in Ahs of each battery. For example, three 50Ah batteries in parallel will sum up to 150Ah.

#### For series connections:

- a. The system capacity will equal the capacity of a single battery.
- b. Connect the voltage sense wire to the battery that has the positive terminal of the system.

#### For Series-Parallel connections:

Connect the shunt to the battery that has the negative terminal of the system, and the voltage sense wire to the battery that has the positive terminal of the system.

# Connecting To The Smart Battery Monitor App:

1. Install the **AIMS POWER Battery Monitor** APP via the Google TM or Apple App store.

2. Open the app and select the Battery

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- Monitor by its serial number.
- At the 'SETTINGS' screen, enter the battery parameter information required followed by tapping 'SAVE SETTINGS' on the bottom.
- Tap the setting button on the top right, into the 'CALIBRATION' screen, enter the battery parameter information required, followed by tapping 'SAVE SETTING' at the bottom.
- 5. You will now be in the dashboard where you can monitor the battery's state of charge, voltage, current, temperature, time
- remaining and the cycle life.
- 6. Your smart battery monitor is now ready to use.

## 'Aims Power Battery Monitor' App Interface:



**Technical Support:** If you have technical questions about your Battery Monitor, please contact the original place of purchase or AMIS POWER directly.

Warranty: One-year limited warranty.