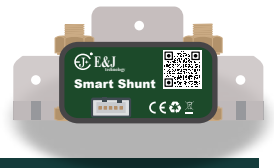
Smart Shunt Battery Monitor

EJ SmartShunt USUER GUIDE



Thank You
FOR CHOOSING

Please read through the manual in detail before installing and using your new battery monitor. Should you have any questions concerning safety precautions, installation, or use please contact us using the contact details below.

BLUETOOTH COMPATIBLE

Product Introduction:

The Smart Shunt is a high-precision meter that allows you to check the status of your battery via your smartphone with Smart Battery Monitor app.
Through the use of the current shunt, the battery monitor measures the discharge or recharge currents and calculates the Ampere-hours (Ah) going in and out of the battery.
High-precision voltage measurements are taken and displayed in real-time through the use of a field-installed sense wire.
The Smart Shunt is compatible with all types of batteries including Lithium-ion, lead-acid and nickel-metal hydride batteries.

Applications:

Suitable for traction/mobile and stationary applications.

- Golf Carts & Utility Vehicles
- Marine RVs
- Solar Energy Storage
- Aerial Work Platforms
- Robots

Data Displayed:

- Battery Voltage
- Capacity Remaining
- Battery Current
- Battery State of Charge (SOC)
- Power
- Cycle Count
- Time Remaining

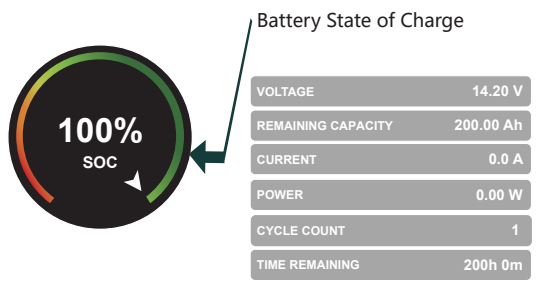
Parameter	Min	Max	Unit
Voltage	8.0	80.0	V
Current	0.0	500.0	A
Capacity	0.1	999.0	Ah
Temperature	0.0	35.0	˚C
Active Parasitic Current		14.0	mA
Standby Parasitic Current		0.8	mA
Sleep Parasitic Current		80.0	uA
Voltage Accuracy	±1		%
Current Accuracy	±1		%
Capacity Accuracy	±1		%

Included Components:

- Smart current shunt
- Sense wire 22AWG (1M)

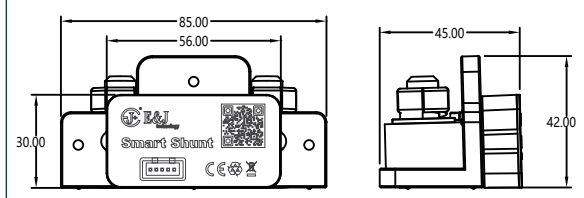
Battery Information Display via Phone:

Figure 1



Dimensions:

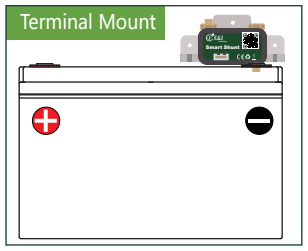
Figure 2



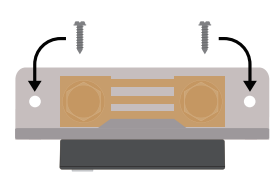
Smart Shunt Installation:

1. As shown in Terminal Mount Install the M8X30mm brass of the shunt' s B- side in reverse, and attach the shunt' s B- side directly to the battery' s negative terminal.
2. As shown in Front Mount The Smart shunt has two 3.0mm holes for mounting purposes located in the base of the shunt holder. The holes can be used to screw or bolt it onto a hard surface(screws are not included).

Terminal Mount



Front Mount



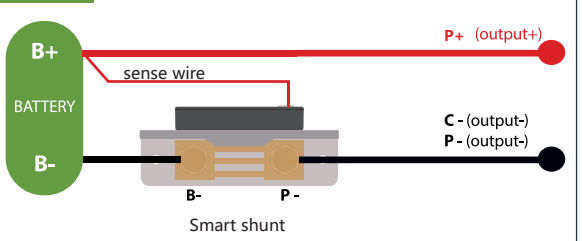
Electrical Connections:

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 EJtechnical 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.
2. 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.
3. 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.

Figure 3



Preparation Steps:

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

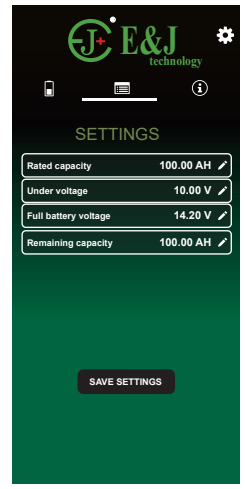
Connecting To The Smart Battery Monitor APP:

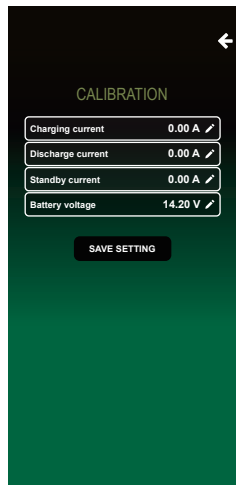
1. Installl the Smart Battery Monitor app via Google or the Apple App store. You can search for "Smart Battery Monitor" or use the provided QR codes.

Available on the App Store

Google play

2. Open the app and select the Battery Monitor by its serial number.
3. At the "BASIC SETTINGS" screen, enter the battery parameter information required followed by tapping 'SAVE SETTING' .
   -Fully charge the battery bank and set the capacity remaing.
4. same as the reted capacity of battery.
   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.
   -Ensure that the battery voltage is displayed correctly.
   Using a multi meter to check battery and set the same voltage on the App.
   For example, LiFePO4 12.8V 100Ah as shown below.





5. You will now be in the dashboard where you can monitor the battery's state of charge, voltage, current, time remaining and the cycle life.
6. Your smart battery monitor is now ready to use.

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

Warranty: One-year limited warranty.