

SolarTech Power Solutions

How to measure the battery current of a base station

BASIC APPLICATION

Storage systems have been proven to be "extremely lucrative" for commercial and industrial (C&I) filed.



Overview

How accurate is battery current measurement?

If you're able to accurately sense the current draw, and the battery is well-characterized, you'll be able to accurately determine the amount of time remaining before your mission-critical system dies. With careful design, you can measure battery current to within 0.2 percent of full scale.

How accurate is battery current gauging?

With careful design, you can measure battery current to within 0.2 percent of full scale. With that information, the most accurate gauging systems, taking battery age, temperature, self-discharge, and discharge-charge cycle history into account, can usually estimate remaining battery life to within 1 percent.

How to monitor the status of an EV battery?

There are a variety of current sensing technologies that can monitor the status of an HEV or EV battery. The solution varies with the voltage and capacity of the battery. As shown in Figure 1, there are two main locations where you can measure current: top of stack (high-side sensing) and bottom of stack (low-side sensing). Figure 1.

What is a current sense resistor?

In the classical current-sensing circuit, designing for the sense resistor can bring unwelcome challenges. This saves board space and provides a four-decade sensing range. Current sense amplifiers (CSAs) are specialized amplifiers that monitor current flow by measuring a voltage drop across a sensor element.

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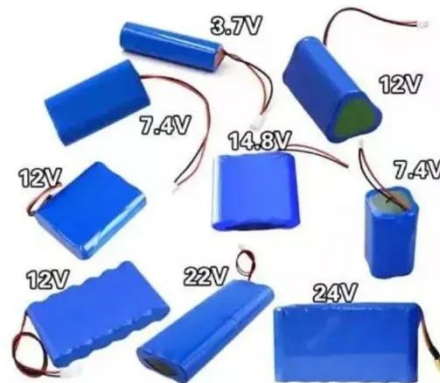


Current Sensing in Battery Management Systems

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Base station operation guidelines



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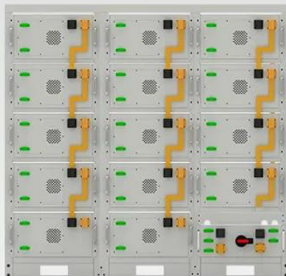
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How to Test a Battery Current Sensor , Helpful Example (2025)

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Battery String-S224

- 1C Charge/Discharge
- Easy configuration and maintenance
- Power supply can be single battery string or parallel battery strings

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