

# Solar container battery ccs temperature collection

<div class="df\_qntext">What is CCS on a battery?

CCS, short for Cells Contact System, refers to an integrated busbar system that combines conductive busbars, control circuits (such as voltage and temperature sensors), and other components into a single modular unit. It plays a critical role in the internal electrical architecture of battery modules.

<div class="df\_qntext">What is a cell connection System (CCS)?

Also referred to as a battery cover, the Cell Connection System (CCS) is used in electric vehicles (EV) and hybrid electric vehicles (HEV). Used as the top cover to the battery pack, it provides temperature sensing and voltage sensing of the battery cells, as well as high voltage connectivity, via the busbars, across the battery pack/cells.

<div class="df\_qntext">What is a battery cell contact system (CCS)?

Currently, the flexible printed circuit CCS is the most common battery cell contact system for an EV's lithium battery pack. The FPC assembly of a battery CCS is surface-mounted with SMDs (surface-mounted devices). Its SMDs include connectors, NTC thermistors, and nickel sheets.

<div class="df\_qntext">How does a CCS module work?

On a CCS, there is at least one connector. When the CCS module is delivered to the EV battery pack manufacturer, they can connect the BMS and the CCS. Besides, the CCS is placed on, above, or between the battery cells and is also connected to the BMS, connecting the cells and BMS.

<div class="df\_qntext">How does a CCS work in an EV battery pack?

In an EV battery pack, the CCS connects the battery management system (BMS) and the lithium battery cells electrically and electronically. The CCS module's copper busbars connect the lithium battery cells by laser welding to achieve high-voltage connections. On a CCS, there is at least one connector.

<div class="df\_qntext">What is a CCS and how does it work?

At the heart of its functionality, the CCS acts as a method for cell connection, enabling precise temperature and voltage sensing across the battery pack. This multi-functionality underscores the system's innovation, ensuring optimal performance and reliability. This is one example.

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