

# User energy storage circuit board

What is a battery energy storage system?

Currently, a battery energy storage system (BESS) plays an important role in residential, commercial and industrial, grid energy storage and management. BESS has various high-voltage system structures. Commercial, industrial, and grid BESS contain several racks that each contain packs in a stack. A residential BESS contains one rack.

What is a ucc12050 power module?

The device is available in the SOIC-16 (DW) package and a smaller SOIC-8 (DWV) package. The UCC12050 is an automotive qualified DC/DC power module with 5-kVRMS reinforced isolation rating designed to provide efficient, isolated power to isolated circuits that require a bias supply with a well-regulated output voltage.

What are ucc12050 and sn6505 devices used for?

The UCC12050 and SN6505 devices are used for isolated power supply. The design also connects the real-time clock BQ32002 to log data and the humidity sensor HDC3020 to monitor the condensation status of rack or pack. Figure 2-1. TIDA-010271 Block Diagram

How does a BCU work?

CAN, RS-485, and Ethernet is widely used in the communication interface. The BCU switches relays ON or OFF to keep the rack works safely based on the SOC, SOH, and rack status like rack current, voltage, temperature and insulation status. SOC and SOH is estimated from the accurate information of pack and rack.



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