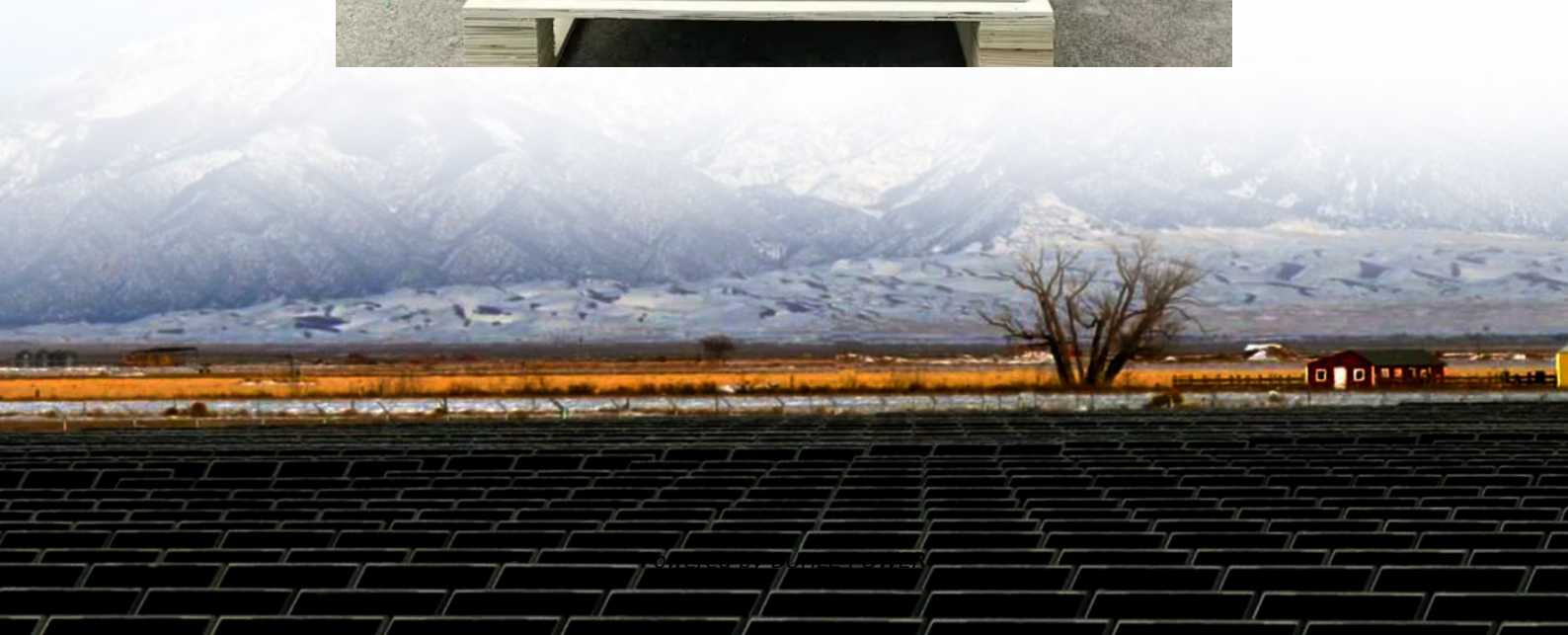


Monitoring battery cabinet communication power supply





Overview

How does a monitoring circuit work?

Typical monitoring circuits consist of a shunt resistor in series with the system load. The voltage drop across this shunt resistor is indicative of the load current. The signal from the shunt resistor gets amplified and converted to digital signal before being fed to the microcontroller (MCU).

What is isolated power supply for SPI digital isolators?

Integrated Isolated Power Supply for Isolated SPI Digital isolators or isolated I2C devices can be used for protection of the low voltage side from the high voltage side in battery monitoring sub-circuit of a BMS. The selection of the appropriate isolation depends on the interface (SPI or I2C) used.

What is a typical monitoring and over-current detection circuit in a BMS?

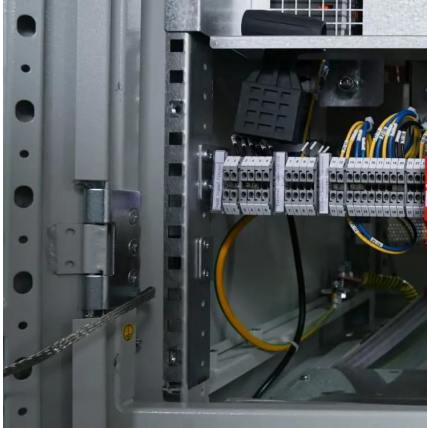
Figure 1. Typical monitoring and Over-current detection circuit in a BMS
Typical monitoring circuits consist of a shunt resistor in series with the system load. The voltage drop across this shunt resistor is indicative of the load current.

Which isolator should be used between MCU and ADC?

Since the MCU is on the low voltage side while the measurement circuitry comprising of the amplifier and the ADC is on the high voltage side, an isolation device sits between these two circuits as shown in Figure 1. The type of isolator to be used depends on the interface used to communicate between the ADC and the MCU.



Monitoring battery cabinet communication power supply



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