



BUHLE POWER

Solar container communication station lithium ion battery no signal





Overview

Potential causes include transmission errors from the charger or incorrect data processing by the BMS. To troubleshoot, begin by inspecting the charger hardware. Why does a lithium battery have a small voltage difference?

During normal operation of a lithium battery, small differences between cell voltages occur all the time. These are caused by slight differences between the internal resistance and self-discharge rates of each cell. The absorption charge stage fixes these small differences.

Why does the BMS disable the battery charger?

Check the cell voltages of all the batteries that are connected to the BMS using VictronConnect. In case of moderate or large cell imbalance, it is expected behaviour that the BMS frequently disables the battery charger. This is the mechanism behind this behaviour: As soon as one cell reaches 3.75V the BMS disables the charger.

How does a battery monitoring system work?

In larger battery systems, monitoring and control electronics are distributed across many PCB assemblies rather than a single centralized BMS computer. This means vital measurement, safety, and battery health data must be continuously synchronized across multiple microcontroller nodes.

What voltage should a battery be in the absorption stage?

When the charger is in the absorption stage, all cell voltages should be equal and between 3.50V and 3.60V. If this is not the case, this is an indication that the battery is imbalanced. This is not an imbalance, although it might look like it.



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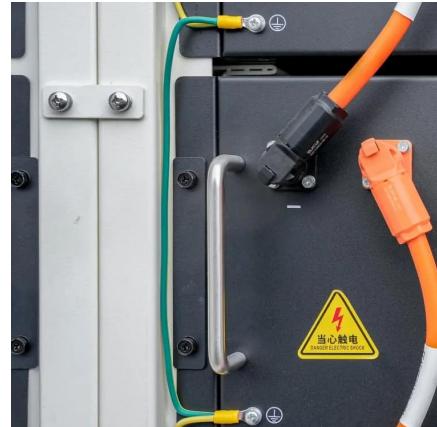
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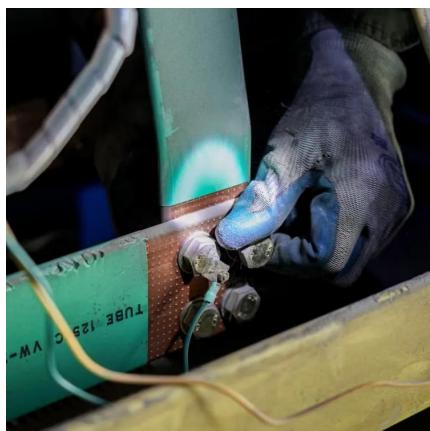
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