# SOLAR PRO.

### **Energy storage system wake-up function**

How to wake up a sleeping LiFePO4 battery?

There are several ways to wake up a sleeping LiFePO4 battery. From connecting the battery to a charge from a solar panel, to warming up the battery and even connecting your sleeping battery in parallel to another LiFePO4 battery. The steps below are the safer and easier way to wake a sleeping lithium battery.

#### What if I don't have a charge with a wake-up function?

If you don't have a charge with a wake-up function, you can try a force-charging method. However, this method required close monitoring to avoid overcharging or overheating. Connect the charge to the battery for 5- 10 minutes. Disconnect the charger and measure the voltage using the multimeter. If the voltage exceeds 2/5V, resume normal charging.

#### What are the different wake-up signals for BMS controllers?

This guarantees the safe use of EVs. BMS controllers operate in two modes: Normal and Sleep. To transition from Sleep to Normal, one or more wake-up signals are required. This article summarizes common internal and external wake-up signals for BMS controllers. 1. Constant Power (KL30): 2. KL15 Ignition Signal: 3. VCU Hardwire Wake-Up Signal: 4.

#### How does a VCU wake up a BMS?

In another scenario, after the BMS has entered sleep mode, if the VCU detects certain faults within the vehicle, it uses a hardwired signal to wake up the BMS. Subsequently, the system follows predefined processing procedures to address the detected issues. 4. AC Charging PP Wake-Up:

#### How does kl15 wake up a BMS?

In one situation, when KL15 is powered, the VCU is initially awakened, and then the VCU, in turn, uses a hardwired signal to wake up the BMS. In another scenario, after the BMS has entered sleep mode, if the VCU detects certain faults within the vehicle, it uses a hardwired signal to wake up the BMS.

#### What is kl30 power supply & Wake-Up signal?

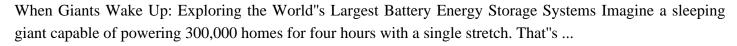
1. Constant Power(KL30): The power supply and wake-up signals for the BMS are illustrated in the diagram below. KL30 provides constant power, and the BMS has multiple wake-up sources, which can originate from both internal and external factors.

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When Jack Frost Nips at Your Batteries: Cold Weather Storage Realities Picture this: It's -10°C outside, and your sleek energy storage system sits there like a hibernating bear - except this ...



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