



BUHLE POWER

# **Battery bank connected to high voltage inverter**





## Overview

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How do you connect a battery to an inverter?

Connect the inverter's positive and negative terminals to the battery, add a fuse on the positive line, and double-check polarity. Match inverter and battery voltage (e.g., 12V to 12V). Always use a fuse or circuit breaker on the positive line. Use thick cables (4 AWG or lower) to prevent voltage drop.

Do inverters and batteries need to match?

The inverter and batteries must match in terms of voltage, capacity, and power output. If you are using a 12V battery, then the input voltage of the inverter must match the battery voltage. If the specifications of the battery and the inverter do not match, the system will not operate stably and may even damage the equipment.

Why are battery and inverter connections important?

Proper battery and inverter connections can prevent equipment damage due to wiring errors or polarity problems. For example, incorrectly connecting the positive and negative terminals of the batteries may cause the inverter to fail to work properly or even burn out the inverter's circuit system.

Why is my battery bank too high?

Too high a voltage in a battery bank is either due to an improper setting in the charge controller or in the inverter's charger. Depending on your battery type, it will be necessary to have digital voltmeter available to measure voltage at the charge controller, the battery and the inverter terminals.



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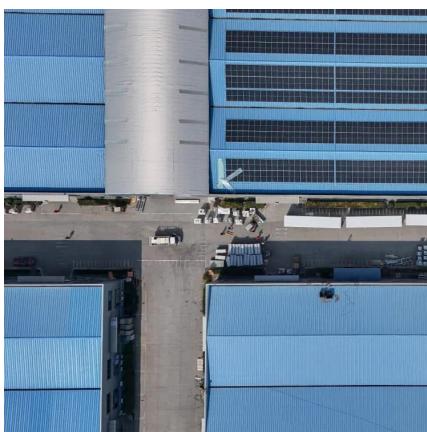


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### 3. Battery bank wiring

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