

# 18650 battery with bms

## 18650 battery with bms

1. Measure and cut nickel strips: Determine the required length of nickel strips based on your cell configuration (parallel, series, or combination). Cut the strips accordingly.
  2. Spot weld the nickel strips to the 18650 cells: Using your spot welder, carefully weld the nickel strips to the positive and negative terminals of each cell. Ensure a solid connection.
  3. Arrange the cells in the desired configuration: Based on your project's voltage and capacity requirements, arrange the cells in a parallel, series, or combination configuration.
  4. Connect the cells using the spot-welded nickel strips: Carefully connect the cells together using the spot-welded nickel strips, following your chosen configuration.
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1. Use a multimeter to measure the voltage of each cell individually.
  2. If there are significant differences in cell voltages, you'll need to balance them using a dedicated cell balancer or the BMS itself (if it has balancing capabilities).
  3. Follow the manufacturer's instructions for the balancing process.
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1. Choose the right BMS: Select a BMS that's compatible with your cell configuration and meets your project's requirements (e.g., charge/discharge rates, voltage limits).
  2. Connect the BMS to the battery pack: Carefully follow the manufacturer's instructions to connect the BMS to your assembled battery pack. This typically involves soldering or using specialized connectors.
  3. Secure the BMS and battery pack: Place the BMS and battery pack inside a suitable enclosure or casing, ensuring proper ventilation and heat dissipation.
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1. Connect to a suitable charger or power supply: Use a charger or power supply compatible with your battery pack's voltage and current requirements.
  2. Perform initial charging and monitoring: Carefully monitor the charging process, checking for any abnormalities or signs of overheating.

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