

# Portable power supply material





## Overview

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Why do we use advanced materials in power supply design?

Incorporating these advanced materials into power supply design contributes to improvements in efficiency, reliability, miniaturization, and sustainability. RECOM engineers are constantly evaluating new components that employ these materials and integrating them into our designs where beneficial.

What new materials are impacting power supply design?

Here are some of the new materials that are impacting power supply design. Of course, the first new materials that we should mention are Silicon Carbide (SiC) and Gallium Nitride (GaN), two wide bandgap semiconductors that are rapidly replacing silicon in multiple power applications.

Which PCB material is best for high power electronics?

In high-power electronics, materials with higher thermal conductivity are necessary to efficiently dissipate heat, minimize temperature rise, and protect components. Traditional PCB materials like FR4 are inadequate for these applications. Opt for materials with a finer glass weave and higher resin content for high-voltage designs.

What are the demands on power supplies in industrial electronics?

The demands on power supplies in industrial electronics are immense. Expectations for higher power and increased functionality within smaller dimensions - without impacting reliability or raising cost - are driving manufacturers toward more capable Material and processes.



## Portable power supply material

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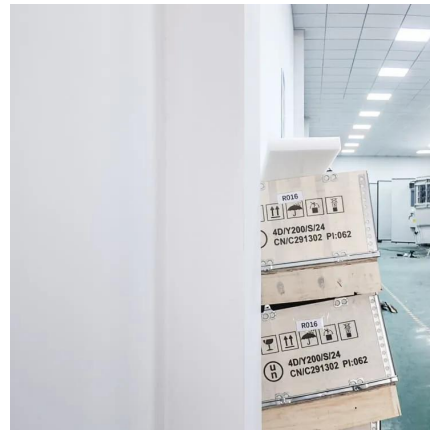


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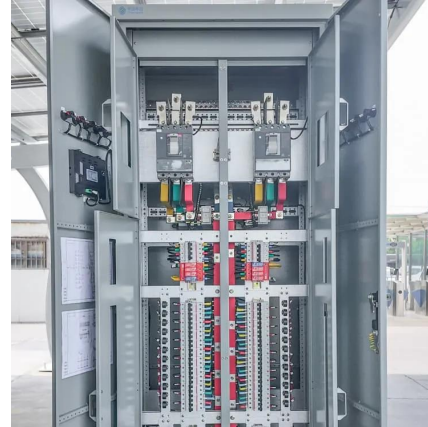


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### Portable Power Supply

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### What materials are used for energy storage power supply?

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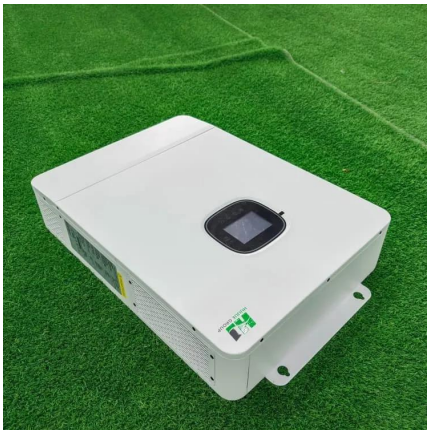
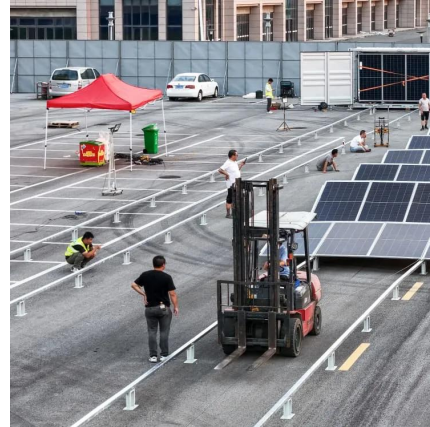
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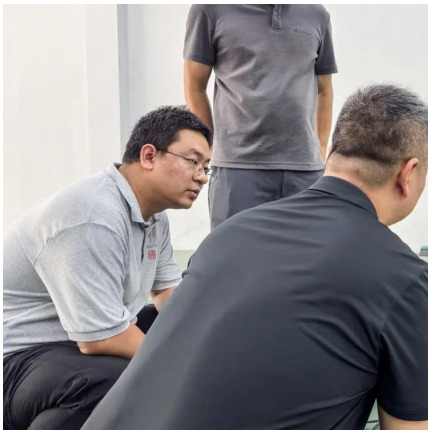
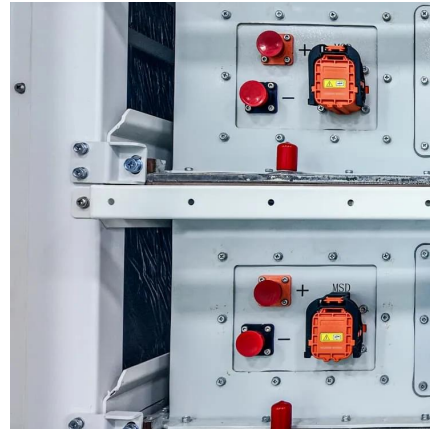
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