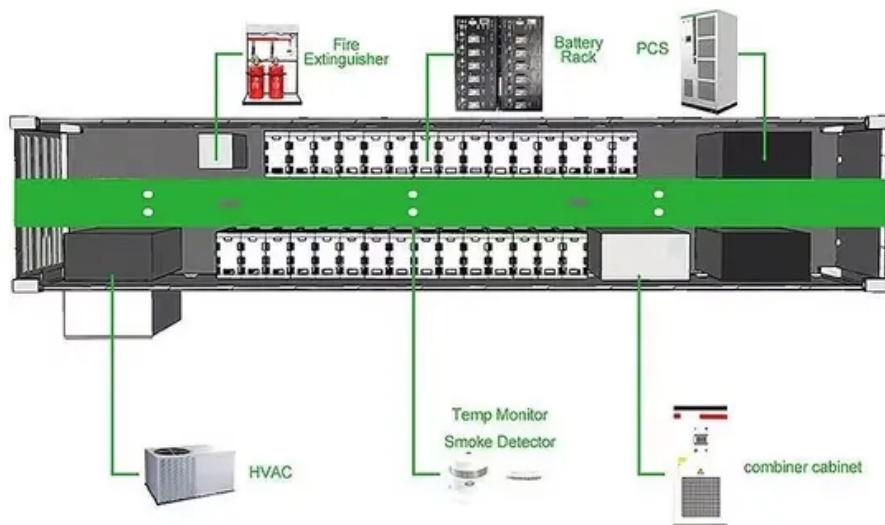


SolarGrid Energy Solutions

Cost reduction solutions for portable power supplies



Overview

How can a switchmode power supply reduce EMI?

Reducing EMI is an endeavor plagued with trade-offs. Conventional methods to reduce EMI include using large, expensive filters or reducing switching slew rates, a technique that directly impacts efficiency. To realize all of the benefits of a switchmode power supply, it is paramount for EMI reduction techniques to resolve the traditional trade-offs.

What is a switch-mode power supply (SMPS)?

One of the most ubiquitous circuits in modern technology is the switch-mode power supply (SMPS), which provides drastic improvements in efficiency over linear regulators in most applications.

How do I reduce input and output voltage ripple?

Without proper mitigation, excessive input or output voltage ripple can compromise operation of the source, load or adjacent system. Traditionally, you could minimize the input ripple by using a passive inductor-capacitor (LC)-based EMI filter, as shown in Figure 4.

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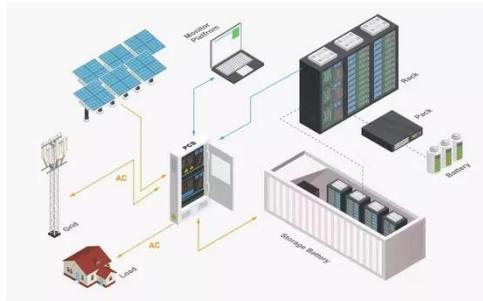


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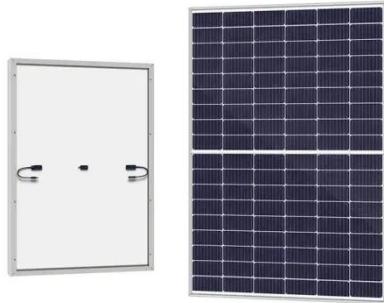
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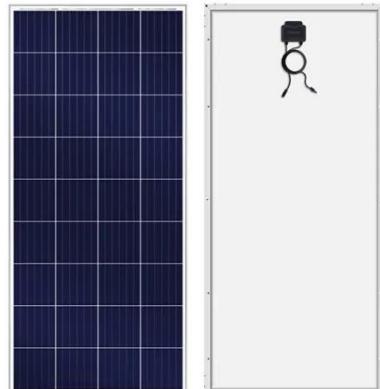


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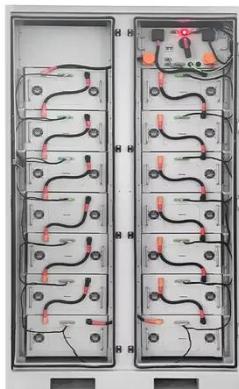
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