

# Monitoring a portable 12v power supply





## Overview

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What is a 12V power supply?

The 12V power supply is designed to convert an input voltage (usually AC) into a stable 12-volt DC output, suitable for a variety of electronic devices and systems. Its job may seem straightforward, but its impact is huge. When you need stable and reliable power for sensitive equipment, a 12V power supply can be your best friend.

What is the difference between a 12V power supply and a battery?

A 12V power supply and a 12V battery may both deliver the same voltage, but they serve very different purposes. A 12V power supply is usually AC-powered, providing a steady, continuous current ideal for stationary devices that need a constant power source. In contrast, a 12V battery is a portable, rechargeable source of power.

What shunts can I use with a battery monitor?

Shunts used with battery monitors are specified with a maximum current rating. This is particularly relevant if you are using an inverter in a multi-battery environment. For use with a single 120Ah battery in a Battery Box, the Kings 500 Amp shunt has way more than enough capacity.

What do you need to know about a power supply?

Here are the most important ones to know: Output Voltage: This should be 12V, but it's crucial to verify that it remains stable under various conditions. Output Current (Amps): Determines the maximum load the power supply can handle without overheating. Power Rating (Watts): This is calculated by multiplying output voltage and current ( $12V \times \text{Amps}$ ).



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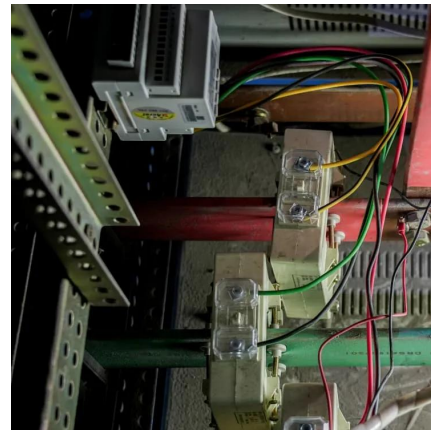


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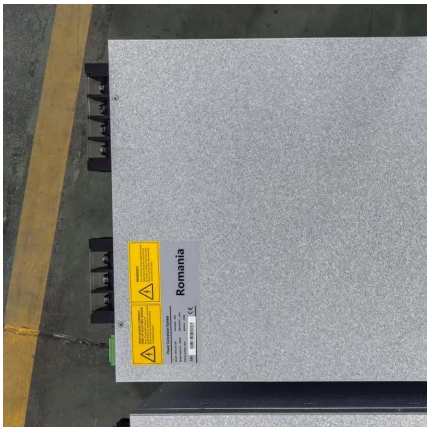
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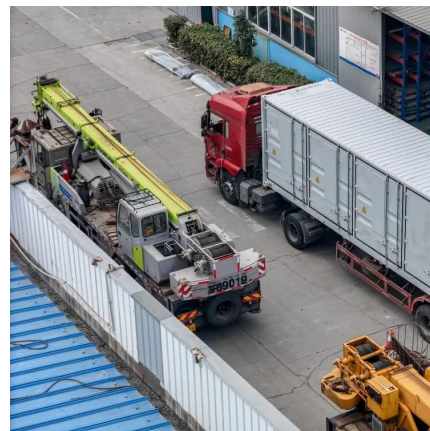


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