

Title: Portable product power supply design

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A monolithic CMOS DC power supply could meet the severe size and efficiency requirements of a hand-held device. This chapter describes a design methodology for such converters.

The design of the power system for hand-held, battery-powered devices with multiple supply voltages is a handful for even the most experienced power supply engineer. Here's some ...

This paper presents the design of a portable, multiple-output, adjustable DC power supply based on synchronous Buck and Buck-Boost converter topologies. Powered by a Li-ion battery pack (two ...

Portable power conversion applications present unique and challenging design considerations. Innovative, small electronics require solutions with small footprints. In order to maintain battery life, ...

Next, I'll describe how to put the information to use modifying the power supply from transformer to battery operation, and how to add a V/I meter to make a more useful portable variable power supply.

It is characterized by safety and support for fast charging and is suitable for multiple devices. Multiple ports and equipped with AC socket to power large electrical appliances. The product's handle and ...

This article introduces the method and principle of applying a microcontroller control system to a portable emergency DC power supply, and proposes a method for a portable emergency DC...

The design of a small-scale, cost-effective portable solar power system is described in this work. A solar panel is included in the final product to capture and convert solar energy to electrical energy.

Battery-charger demands have changed from a simple stand-alone charger to an embedded charger and power source for the system. This topic provides some insight into the many new issues the ...

This article will discuss USB Type-C specifications, and recommendations for how to design a simplified



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power delivery solution that meets the necessary requirements for powering portable devices and ...

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