High power portable DC-DC power supply design

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A Compact High Voltage DC Power Supply Design by High-Rate

Aiming at the energy supply needs of pulse-driven sources in mobile working environments, this paper designs a compact portable high-voltage DC power supply based on the

Design of Portable Multiple Outputs Adjustable DC Power Supply

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

Circuit techniques for compact and lightweight high-voltage DC power

My dissertation includes the motivation for investigating each of those circuit techniques and relevant power supply designs as well as application examples.

Portable Power Conversion Design Guide

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

CustomPowerLabs , High-Efficiency Custom Power Solutions

At CustomPowerLabs, we specialize in bespoke PCB power supply design, delivering custom DC-DC, AC-DC, and battery-powered systems. Our solutions feature advanced EMC optimization, multi-rail

High-Voltage Programmable DC Power Supplies for 600-V to 1000-V

These power supplies (Table 1) all provide high, reliable power with low noise and excellent regulation and can be controlled from the front panel or remotely through a number of interface options.

Design of a Portable Emergency DC Power Supply

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 power

Portable DC Supply Based on SiC Power Devices for High-Voltage

This paper presents the design and implementation of a miniaturized high-voltage power supply with power factor correction (PFC) for atmospheric-pressure plasma jet (APPJ) applications.

Portable DC Supply Based on SiC Power Devices for High-Voltage

The portable DC supply offers a very high voltage gain: input voltage is 24 V, while the generator requires supply voltages up to 50 kV. Thus, the system contains two stages designed on

DC-DC Power Conversions and System Design Considerations

The following sections, present the fundamentals and design considerations of various portable DC-DC conversion topologies including Buck, Boost, non-inverting Buck-Boost, Flyback and Charge Pump

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