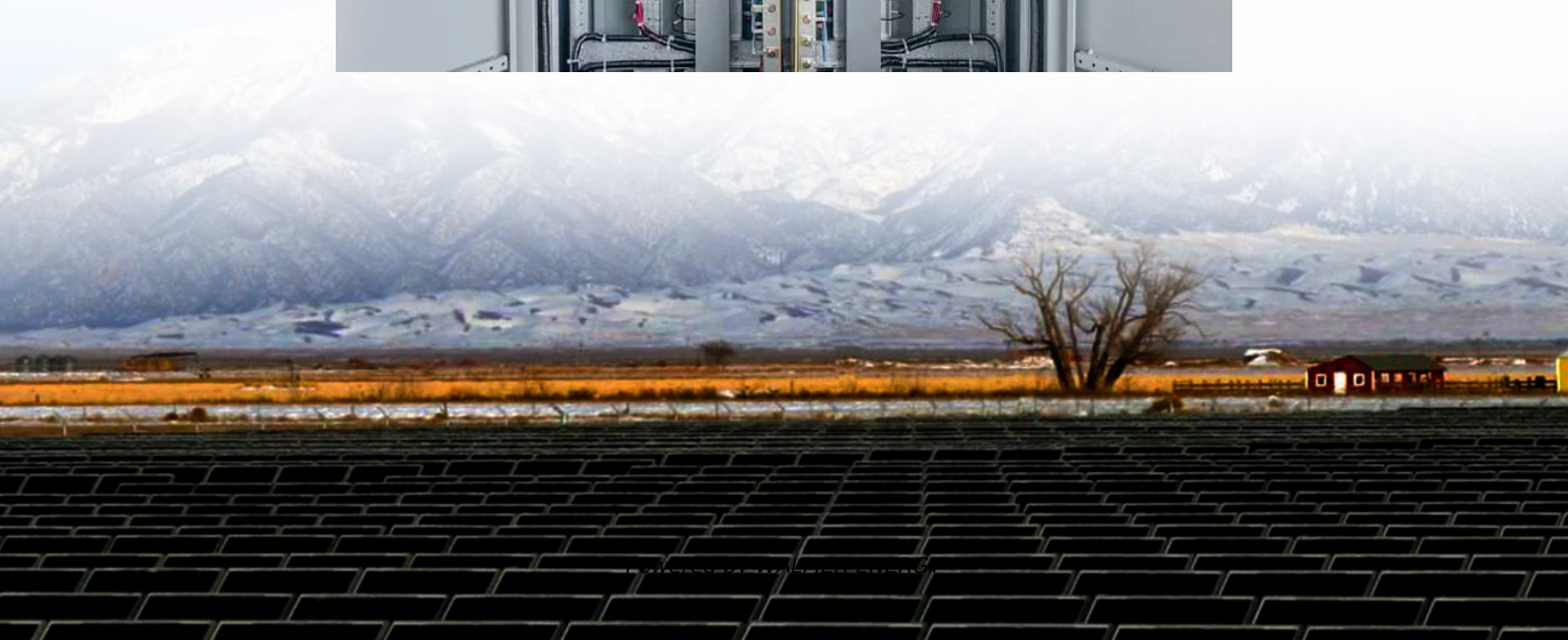


# Portable conversion power supply





## Overview

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What are portable power conversion applications?

Portable power conversion applications present unique and challenging design considerations. Innovative, small electronics require solutions with small footprints. In order to maintain battery life, portable applications require both high conversion efficiency and low standby power dissipation.

What is a portable power supply?

These devices provide stable, adjustable power outputs in a portable form factor, making them ideal for various applications, from prototyping circuits to powering small gadgets. They are especially useful when fixed-voltage power supplies—such as those from old laptops, power banks, or other power adapters—are already available.

What is a compact power supply?

Compact power supplies are becoming increasingly popular among electronics enthusiasts, makers, and professionals. These devices provide stable, adjustable power outputs in a portable form factor, making them ideal for various applications, from prototyping circuits to powering small gadgets.

Why do portable batteries need a buck conversion?

In order to maintain battery life, portable applications require both high conversion efficiency and low standby power dissipation. Multi-cell battery packs may require step-down (buck) conversions and single cell batteries often require step-up (boost) conversions to maintain consistent power levels while the batteries discharge.



## Portable conversion power supply

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### PocketPD

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### Design Solutions 8

The LTC1628 2-phase dual system power supply controller is an ideal solution for providing 3.3V and 5V system power and the first conversion step in a 2-step solution.

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### Portable power station design resources , TI

Related applications Our integrated circuits and reference designs help you create safe and more efficient portable power stations. Whether with bidirectional AC/DC or standalone charger ...

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