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# Communication backup power storage bidirectional power supply





## Overview

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What is a bidirectional power supply?

A bidirectional power supply demands a different design approach compared to an equivalent unidirectional supply. A unidirectional AC/DC power supply designed for high efficiency uses wide bandgap (WBG) SiC or GaN power devices with a totem-pole power factor correction (PFC) front end driving a DC/DC topology such as an LLC resonant converter.

What is a bi-directional Converter?

AC/DC topologies Bi-directional converters use the same power stage to transfer power in either directions in a power system. Helps reduce peak demand tariff. Reduces load transients. V2G needs “Bi-Directional” Power Flow. Ability to change direction of power transfer quickly. High efficiency >97% (End to End) at power levels up to 22KW.

How does a DC energy storage system work?

The system not only converts DC storage energy to the loads or the grids bidirectionally, but also supplies high quality power, such as low total harmonic distortion (THD) current to the grids or the load consumers, or low ripple charging current to the energy storage units.

What is a unidirectional AC/DC power supply?

A unidirectional AC/DC power supply designed for high efficiency uses wide bandgap (WBG) SiC or GaN power devices with a totem-pole power factor correction (PFC) front end driving a DC/DC topology such as an LLC resonant converter. Although the totem-pole PFC topology is bidirectional, the resonant LLC is not.



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[How Bidirectional Power Supply Works -- In One Simple ...](#)

Bidirectional power supplies are transforming how energy flows in modern systems. Unlike traditional unidirectional units, these devices can both deliver and absorb ...

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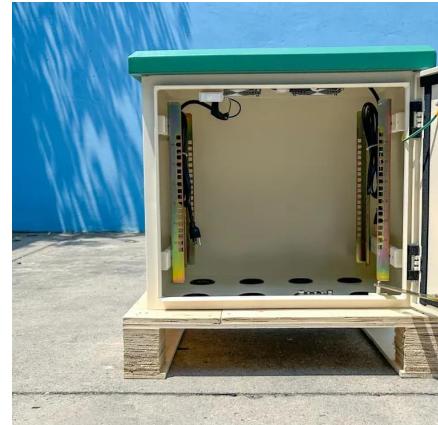
#### [How Does an Energy Storage System Enable Efficient, ...](#)

Explore how an integrated Energy Storage System improves efficiency, reliability, and flexible power operation through all-in-one architecture, smart control, and scalable design.

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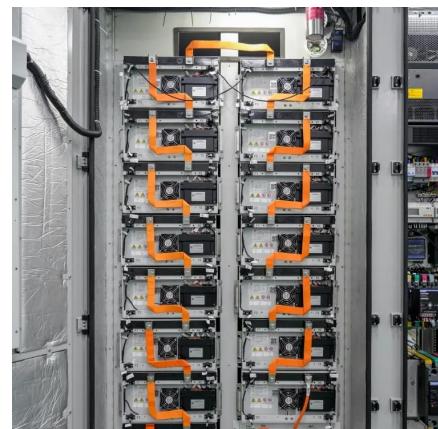
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Discover how AC/DC bidirectional power supplies boost efficiency, support renewable energy, and enhance smart grid stability in modern energy systems.

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This two-part series will look into the use of bidirectional converters in uninterruptible power supplies (UPSs), battery-backup units and energy storage bank ...

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[Design of High-Power Energy Storage Bidirectional ...](#)

The power conversion system or bidirectional power converter is the interface between the energy storage units and the grids or load consumers. The system not only converts DC storage ...

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