

# Ankara bidirectional energy storage inverter power supply





## Overview

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Are bidirectional power conversion blocks a solution to energy storage challenges?

A potential solution to these challenges is bidirectional functionality for AC/DC, DC/AC and DC/DC power-conversion stages. To further increase system integration, system BOM and form-factor reductions, the landscape of grid systems that involve energy storage is moving toward bidirectional power conversion blocks like those shown in Figure 2.

What are bidirectional power conversion blocks & Hybrid inverters?

Bidirectional power conversion blocks and hybrid inverter solutions allow for reduced components, fewer modules and subsystems, and ultimately a lower system BOM cost. C2000™ devices for real-time control are purpose-built to meet designers' needs and help continue the growth of the energy storage market.

Why are portable bidirectional converters important?

In various industries, including the production of new energy and electric vehicles, portable bidirectional converters are crucial for enhancing power supply reliability. In recent years, these converters have become increasingly normal in daily life.

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.



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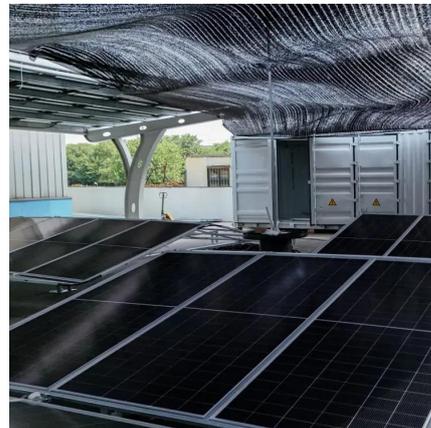


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The energy storage system allows bidirectional power transfer between three-phase AC voltage side and energy storage device through the bidirectional AC-DC converter.



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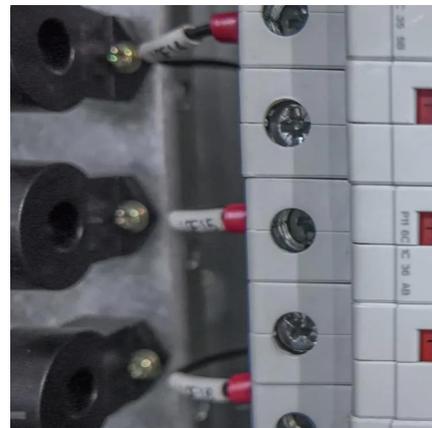
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### Bi-directional AC/DC Solution for Energy Storage

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