

## **A-Core Container**

# **Bidirectional Energy Storage Inverter 500W**



## Overview

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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.

Why do PV inverters need DC-coupled energy storage?

PV inverters typically require a minimum ‘wake up’ threshold DC bus voltage to operate, resulting in lost energy in the morning and evening or during periods of cloud coverage when voltage on the array is below the PV inverter ‘wake up’ threshold. Adding DC-coupled energy storage allows for the capture of this generated energy from the margins.

What happens if a PV inverter exceeds a peak rating?

Due to high DC/AC inverter loading ratios typical with utility-scale PV, energy is lost when PV output exceeds the PV inverter peak rating, resulting in lost revenues. With DC-coupled battery storage attached to the array, the batteries can be charged with this excess PV output that would otherwise be clipped by the PV inverter.

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### **Contact Us**

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