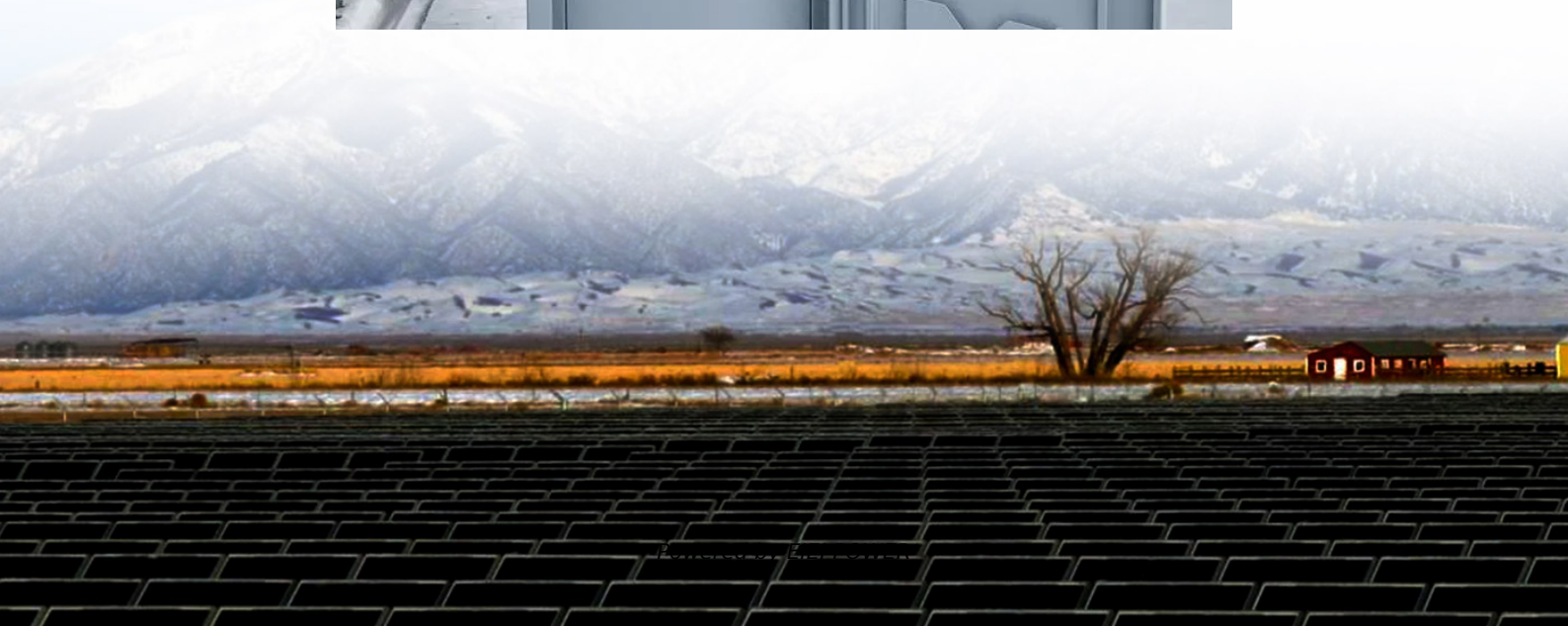


# Redundant DC Inverter





## Overview

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What is an example of a redundant power supply?

For example, the redundant power supply, which has become common in traction inverter architectures, operates directly off the HV battery. This application note discusses key considerations for high-voltage to low-voltage (HV-LV) redundant power supply design using TI's automotive flyback controllers. Figure 1-1.

What is a high power density inverter?

Weight and power density – The wide band-gap switch and powertrain integration are the key technologies enabling high-power density inverter design. The inverter power density target of OEMs continues to, for example, 100 kW/L in the US market by 2025. The use of SiC enables 800-V DC bus voltage, reduce the current rating and wiring harness.

What is Eaton matrix™ modular inverter solution?

**Inverter Solution**The Eaton® Matrix™ Modular Inverter Solution is an integrated inverter power system designed for applications where a very high reliability AC supply is required. The Matrix modular design ensures maximum flexibility to configure solutions to customers' requirements. Modules include inverters, Static Transfer Switch.

Does a traction inverter need a backup power supply?

As automotive applications continue to trend in the direction of increased safety, it has become more common to include a high-voltage to low-voltage backup supply in the traction inverter system. The backup power supply powers the low-voltage components if the 12-V battery fails or the HV battery gets disconnected.



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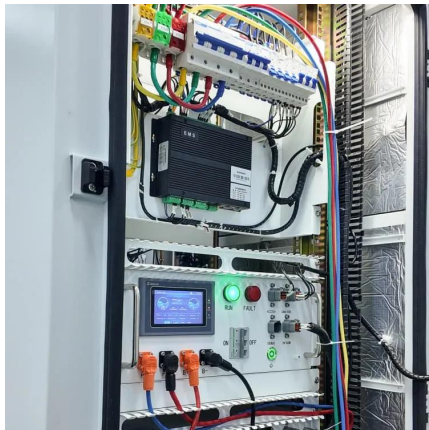
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