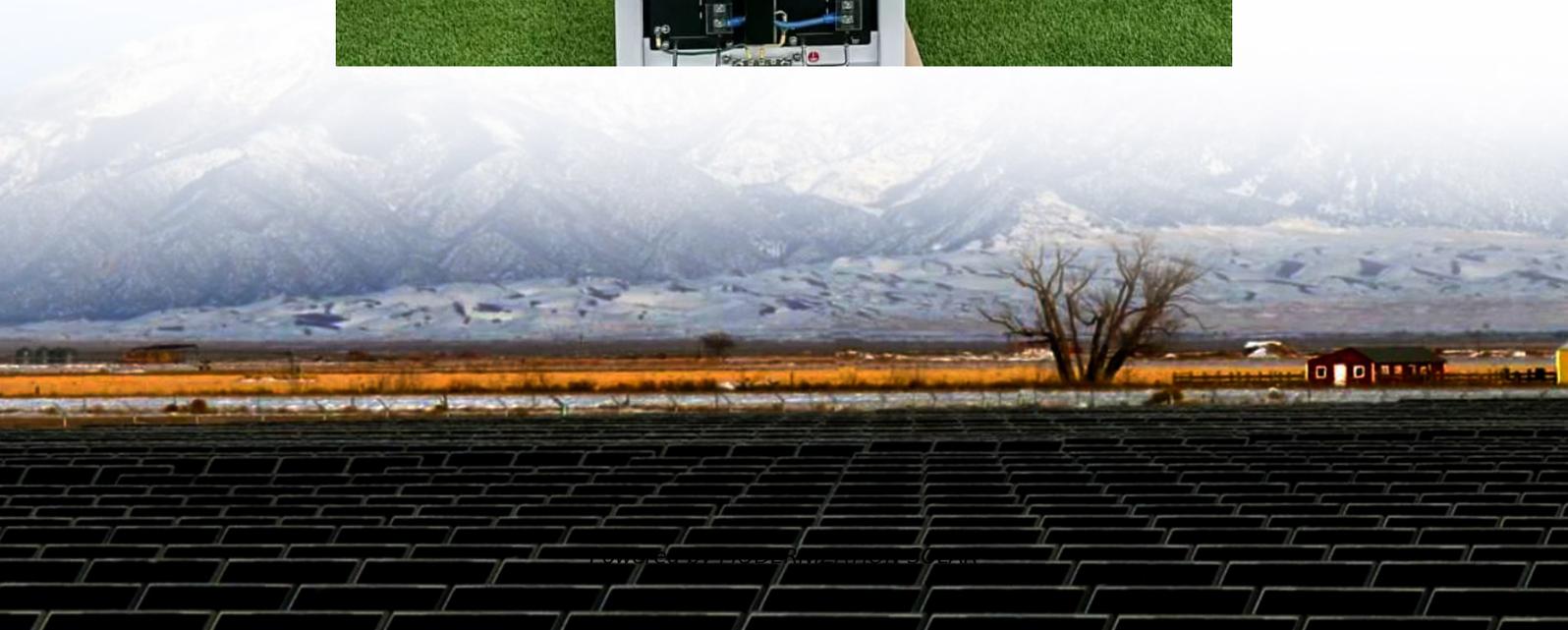


Outdoor power isolation production





Overview

What are the benefits of integrated power and signal isolation solutions?

Fully integrated power and signal isolation solutions simplify system design in a variety of applications by reducing board area, reducing system cost, simplifying certifications, reducing complexity and increasing robustness. However, integration has its own challenges.

How does integrated power isolation work?

With integrated solutions, both signal and power isolation are certified together according to component standards such as Verband der Elektrotechnik (VDE) 0884-11 and Underwriters Laboratories (UL) 1577. This helps result in a shorter certification process for the end product.

What is isolation & how does it work?

Isolation is a means of preventing direct current (DC) and unwanted alternating current (AC) between two parts of a system while still enabling signal and power transfer between those two parts.

Do digital isolators provide power isolation?

While digital isolators provide signal isolation, complete isolation of the two voltage domains requires power isolation as well (see Figure 1). Traditional approaches to generate isolated power use a DC/DC converter to drive a transformer in flyback, fly-buck or push-pull topologies.



Outdoor power isolation production



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