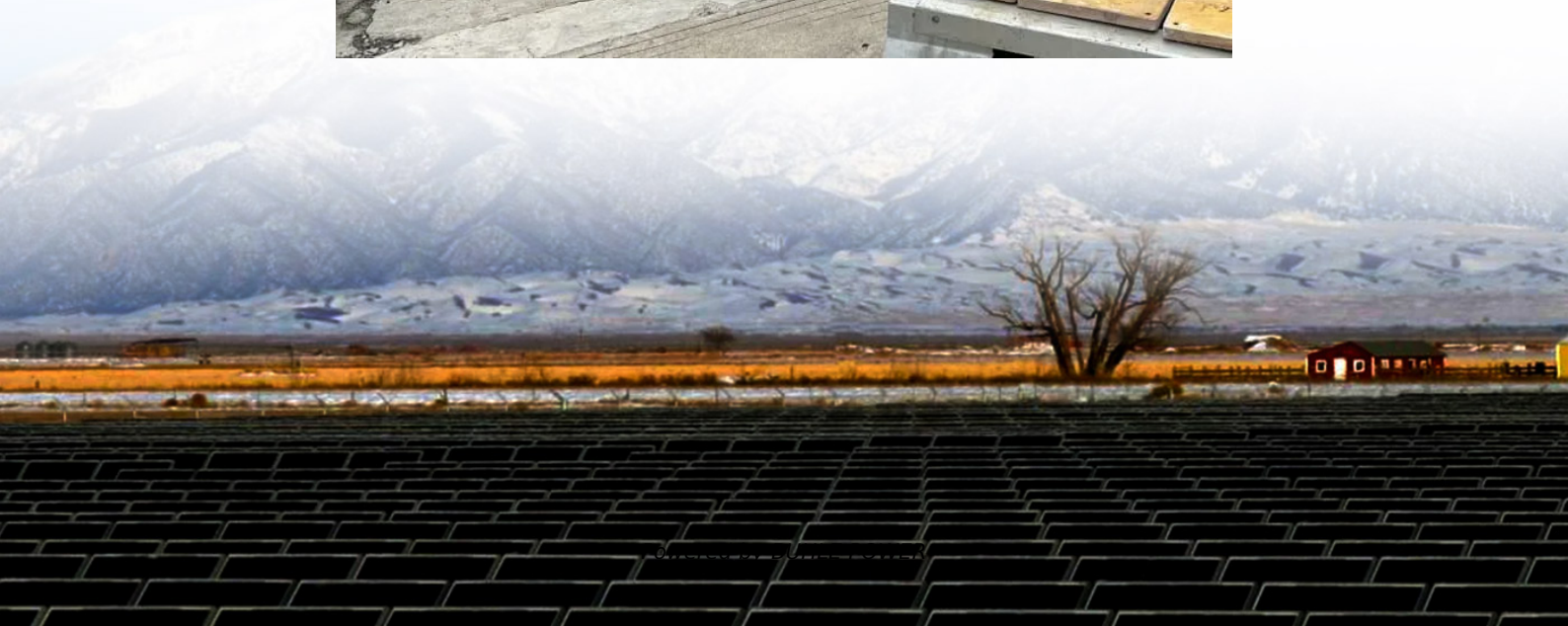


Lome power frequency isolation 35kw inverter





Overview

What isolation options are available for solar power conversion applications?

In response to these needs, Texas Instruments offers several isolation offerings for solar power conversion applications. These include isolated IGBT gate drivers, digital isolators, isolated delta-sigma ADCs and amplifiers, and isolated communication links such as isolated RS-485 and isolated CAN.

What are the different types of isolators used in solar power conversion?

In a solar power conversion system, different types of isolators are adopted to serve various functions. Isolated gate drivers are used to drive insulated gate bipolar transistors (IGBTs) or metal-oxide semiconductor field-effect transistors (MOSFETs) in the high-voltage power stage.

Do solar power conversion circuits need a basic isolation?

In the solar power conversion system (Figure 1), the isolated gate drivers and isolated voltage and current-feedback circuits both need to support reinforced isolation. Basic isolation is sufficient if another basic isolation is inserted through the isolated data links.



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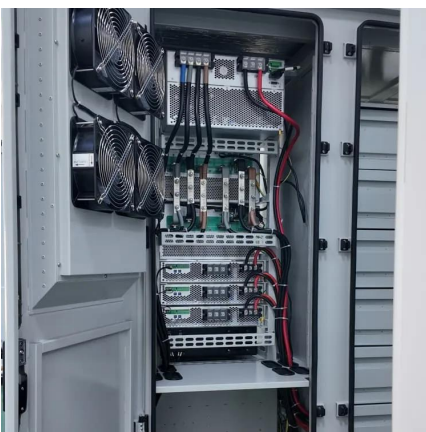


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