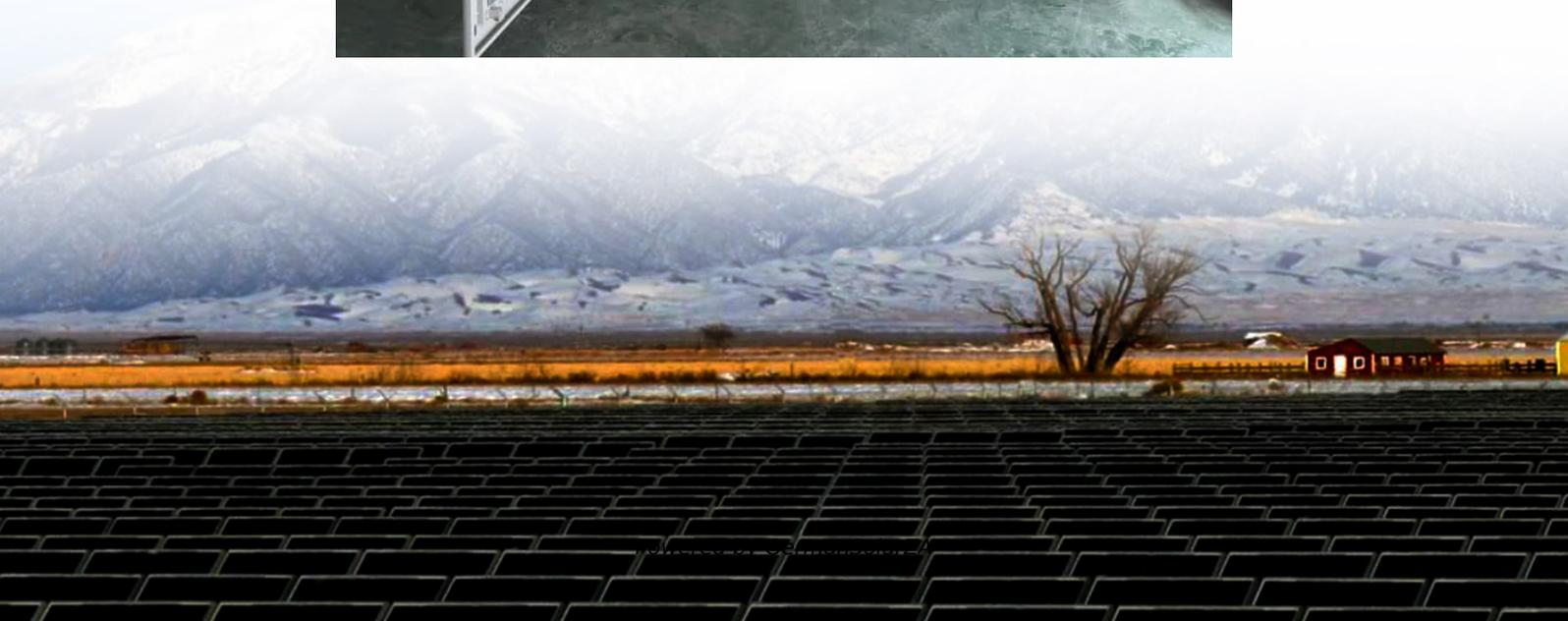


# Paris 10kw power frequency isolation inverter





## Overview

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Why is unipolar a good choice for a string inverter?

Unipolar offers high common-mode voltage and for a transformer-less system such as the string inverter, this can lead to high leakage current. However, the unipolar is run at half the switching frequency and has doubled frequency at the output for a comparable EMI filter design.

What are insulated gate bipolar transistors?

**Key System Specifications** Insulated gate bipolar transistors (IGBTs) are mostly used in three-phase inverters that have numerous applications like variable-frequency drives that control the speed of AC motors, uninterruptible power supply, solar inverters, and other similar inverter applications.

What is a two-channel single-phase string inverter?

This reference design is intended to show an implementation of a two-channel single-phase string inverter with fully bidirectional power flow to combine PV input functionality with BESS supporting a wide range of battery voltages. This system consists of two boards that are split by different functionality.

What is the difference between unipolar and EMI filter design?

However, the unipolar is run at half the switching frequency and has doubled frequency at the output for a comparable EMI filter design. Hence, there are multiple points to consider when comparing the three topologies. To download the schematics, see the design files at TIDA-010938.



## Paris 10kw power frequency isolation inverter

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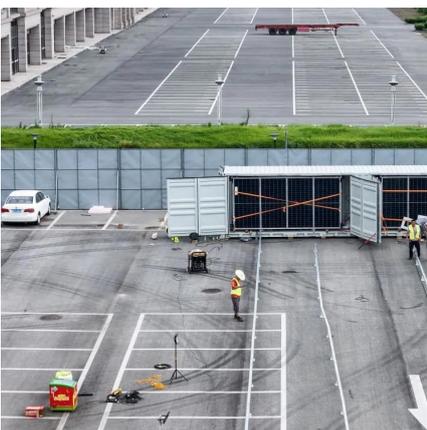
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