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# Congo 10kw power frequency isolation inverter





## Overview

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What is a 10kW single-phase inverter based on a GaN device?

A 10kW single-phase reference design based on GaN devices Figure 3 is a schematic representation of the converter. DC/DC Boost with MPPT1 Input range: 50-500V ISC: 18A Max. DC current: 14A Figure 3. Single-phase string inverter reference design block diagram Two boost converters for two independent string inputs, each 5kW rated (134kHz).

Are microinverters accelerating demand for energy storage systems?

Energy sustainability and security concerns are accelerating demand for energy storage systems, particularly in residential solar installations. There are microinverters with integrated energy storage systems on the market with power as high as 2kW.

How efficient is a string inverter?

With an overall system efficiency close to 98% and a power density of 2.3kW/L, the string inverter reference design demonstrates great performance. In addition, the implementation of an integrated gate-driver solution could lead to cost reductions when considering the total system cost.



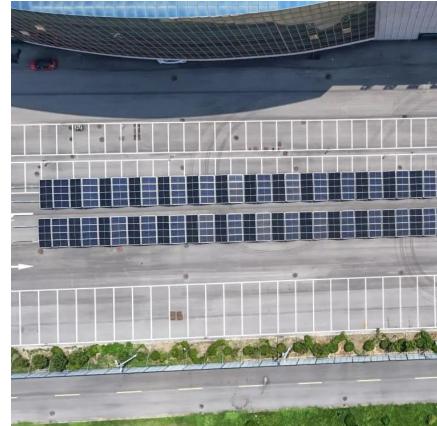
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### [Design considerations of a 10kW single-phase string ...](#)

Figure 2 illustrates the 10kW, GaN-Based Single-Phase String Inverter with Battery Energy Storage System Reference Design, including all active and passive components.



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Page 4/6



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### [10kW 3-phase 3-level grid tie inverter reference design](#)

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