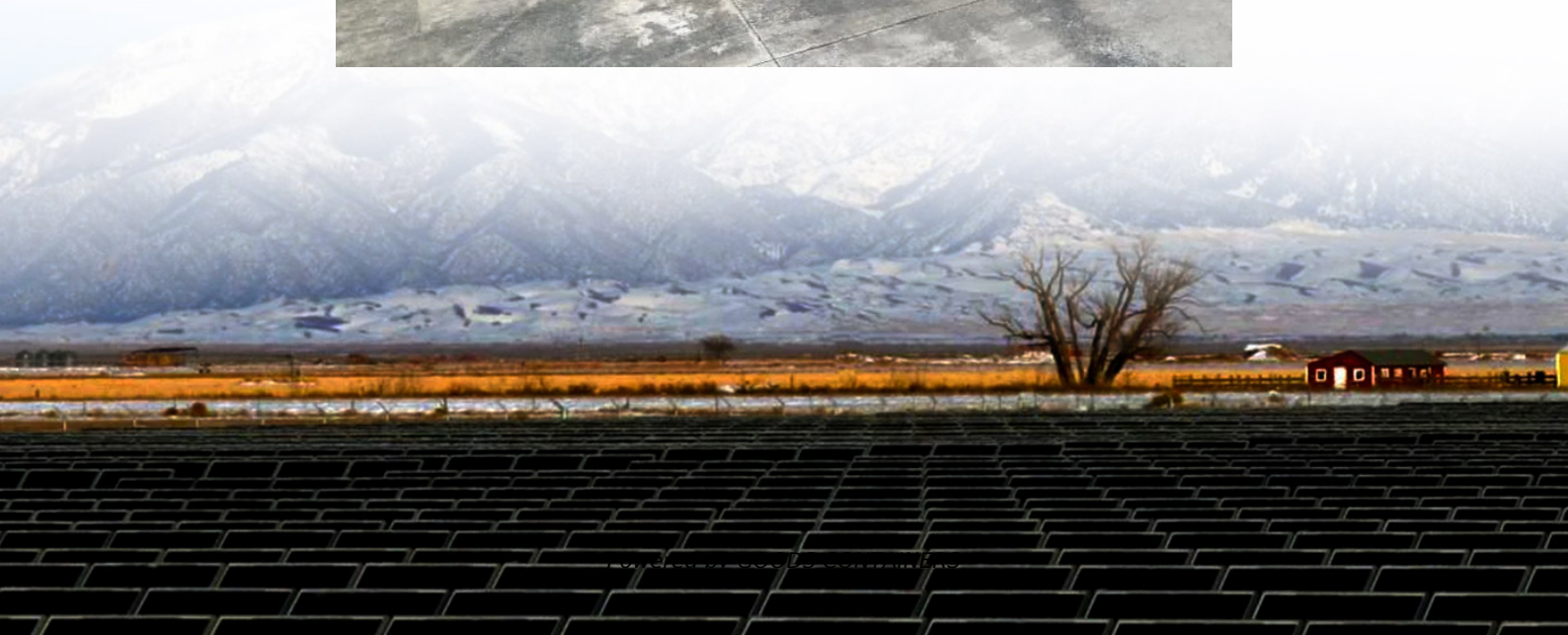


Can the buck module 12a drive the inverter





Overview

What is Inverting buck/boost converter?

The inverting buck/boost converter is often derived from the buck converter by swapping output and ground references. Therefore, it is often improperly labeled inverting as if it is the only topology that can invert an input or inverting buck as if it is the only topology that can invert and step down to a negative output.

Can a buck-boost converter be used with a single synchronous buck converter?

Coupled inductors or transformers can also be used with a buck-boost converter to generate multiple inverting or non-inverting outputs with voltage step up/down function. This white paper will highlight various isolated/non-isolated DC/DC converter topologies and demonstrate how they can be implemented using a single synchronous buck converter.

What can a buck-boost converter be used for?

Designers can use the buck converter for inverting or non-inverting voltage rails, and they can configure it for use as an inverting buck-boost converter. Coupled inductors or transformers can also be used with a buck-boost converter to generate multiple inverting or non-inverting outputs with voltage step up/down function.

Where can I find a buck converter?

Covering devices with input voltage up to 100V and output current up to 40A, this quick reference guide highlights TI's most popular buck converters across a wide variety of applications. To see the complete buck regulator portfolio, visit: PowerPAD is a trademark of Texas Instruments.



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