

Kongres Container

Energy storage solution bidirectional inverter 2kw



Overview

What is a 2KW power supply based on innoscience inn650ta030c?

On March 13, 2025, WPG Holdings, a leading international semiconductor component distributor dedicated to the Asia-Pacific market, announced that its subsidiary Quan Ding launched a 2KW 48V bidirectional AC/DC energy storage power supply solution based on Innoscience's InnoGaN INN650TA030C, INN650TA050C, INN100EQ016A and INS1001DE chips.

What is a bi-directional Converter?

AC/DC topologies Bi-directional converters use the same power stage to transfer power in either directions in a power system. Helps reduce peak demand tariff. Reduces load transients. V2G needs “Bi-Directional” Power Flow. Ability to change direction of power transfer quickly. High efficiency >97% (End to End) at power levels up to 22KW.

What is a bidirectional power directing switch?

Bidirectional Power Directing Switches The purpose of the two switches is to channel the flow of power from the panel or to the load depending on the state of the system. When the system is in the battery charging state, MOSFET Q3A is turned on and MOSFET Q3B is turned off. Power flow occurs from the panel to the battery.

How does a bidirectional power stage work?

The bidirectional power stage operates at a 100-kHz switching frequency when working as a synchronous buck and operates at a 350-kHz switching frequency when working as a synchronous boost.

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