SolarTech Power Solutions

Bolivia bidirectional energy storage inverter power supply

Overview

What is a msp430f5132 bidirectional power supply?

The versatile bidirectional power supply is an integration of two systems: a DC-DC synchronous buck converter for charging a lead acid battery and a DC-DC synchronous boost converter for driving a CC-CV DC load from the lead acid battery. Control of the system is managed through an onboard MSP430F5132 microcontroller.

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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