

What is a 48 V intermediate bus converter?

Driven by AI and the associated high power requirements, datacenters are transitioning to 48 V intermediate bus converters, which require a complex power conversion process. For high power GPU and AI ASICs in this application, the conversion process starts with the power supply directly from the busbar to the accelerator card or baseboard.

What is a 48-V Telecom current voltage and power sense?

48-V Telecom Current, Voltage, and Power Sense With Isolation Reference Design This verified design can accurately measure current, voltage, and power on a bus that carries -48 V and is able to provide this data using an I2C-compatible interface.

What is a 48V converter power module?

Coincident with this evolutionary change of subsystem PDN voltage has been the adoption of 48V-centric dc-dc converter power modules, which have numerous ease-of-use, power density, power scaling and weight benefits, and which support regeneration (the return of energy to the primary power source).

What are integrated high-voltage to 48V power modules?

Integrated high-voltage to 48V power modules are becoming more common in EVs and other applications as battery voltages increase. Learn how bidirectional fixed-ratio bus converter modules are optimizing power delivery in these systems. By: Maury Wood, VP Strategic Marketing, Vicor Corporation

The 1RU Series DC-AC power inverter provides seamless back-up power for AC powered communications equipment from the site's 48V DC battery system. Voltage: 97-123 ...

Author: Maury Wood, VP Strategic Marketing The economic and quality-of-life benefits of electrification is driving the adoption of HV to 48V DC-DC conversion across many ...

High-voltage bus converter power modules for electric vehicle 48V power delivery networks The economic and quality-of-life benefits of electrification is driving the adoption of ...

BLDCs are highly efficient motors and a good fit for battery e-load applications. They require a six-transistor inverter for the power stage (see Figure 1). The power bus ...

Description This verified design can accurately measure current, voltage, and power on a bus that carries -48 V and is able to provide this data using an I2C-compatible ...

The NCV21671 is a series of voltage output current sense amplifiers offered in gains of 25, 50, 100, and 200 V/V. It measures voltage across shunts at common mode voltages from -0.1 V to ...

Next-generation direct digital power conversion from 48 V eliminates intermediate conversion stages to minimize power loss in datacenters from power distribution and reduce space, ...

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Abstract Intermediate Bus Architectures have been popular in the telecom industry for their ability to easily accommodate a wide variety of loads from the telecom industry's ...

This low voltage inverter for 2/3 wheeler traction motor control features an MCU and analog products, designed for high-power 48V motor control applications. The design includes ...

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