

Power Switching Converters

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Power Switching Converters

LLC resonant converters are quite commonly used in many applications when designers endeavor to boost their efficiency and power density. Two methods in particular prove very effective in enhancing ...

How to Improve LLC Converter Power Density

In most wall-powered electrical systems, one of the significant sources of power consumption is lost during the power conversion process. Between the wall power and the DC load, voltage generally ...

New Infineon Flyback Converters Target Power Losses in USB Power Delivery

On tap in this edition of PowerBites is an inverter that leverages AI for high efficiency, new high-current-density inductors, sulfur-resistant thick-film resistor arrays, and surprising news on the X ...

This Week in PowerBites: AI Power Conversion, NASA's Electric X-Plane

Boost power factor correction (PFC) converter with constant on-time (COT) control is widely used in low-to-medium power applications. However, the range of the switching frequency varies with ...

High Power Factor CRM Boost PFC Converter with Optimum Switching Frequency Variation Range Control Based on Variable Inductor

In this paper, a new non-isolated full soft-switching step-up DC/DC converter is introduced with a continuous input current for renewable energy applications. The use of a Three-Winding ...

A Novel Full Soft-Switching High Gain DC/DC Converter Based on Three-Winding Coupled-Inductor

It can accept an input voltage from 3.5V to 38V, suitable for use in battery-powered applications and power supplies ...

Integrated Regulators Simplify High-Efficiency Power Conversion

The Switching Power Supply Market is forecast to reach 39 964 billion by 2025 after growing at a CAGR of 5 68 during the period 2019 2025 Advancements in the semiconductor industry is attributed to ...

Switching Power Supply Market Forecast to Reach \$39.964 Billion by 2025

Nexperia has extended its trench Schottky rectifier range with devices rated at up to 100V and 20A in the company's 'CFP' packages with an internal copper ...

PCIM: Fast switching trench Schottky rectifiers are AEC-Q101 approved

Nexperia has increased its portfolio of Trench Schottky rectifiers with devices rated at up to 100V and 20A. The new parts offer superior switching behaviour and thermal performance. They are offered ...

New Trench Schottky rectifiers offer increase efficiency for fast switching applications

In recent years, resonant converters have become more popular and are widely applied in various applications like server, telecom, lighting and consumer electronics. One key attractive characteristic ...

2-Phase Input Based 300W AC-DC LED Power Supply Based On LCC Topology

Infineon Technologies is launching a new power module with CoolSiC MOSFET technology for automotive applications. The use of silicon carbide instead of silicon ensures higher efficiency in converters ...

Infineon Technologies launches new power module

ABB Power Conversion has announced its new MicroDlynx IITM DC-DC converters help meet the power needs of demanding, data-hungry applications, providing highly a ...

60A DC-DC Converter Eyes 5G, IT and IIoT Gear

With the government imposing a green tax on old polluting vehicles, Indian Auto LPG Coalition (IAC) is advocating the need for this deterrent to be accompanied by incentives to people shifting to ...

Reward those using clean fuels; subsidise conversion kits to encourage green alternatives, govt urged

CISSOID, a specialist in high temperature semiconductors and power modules, has expanded its 3-Phase Silicon Carbide (SiC) MOSFET Intelligent Power Module (IPM) product range. CISSOID has introduced a ...

CISSOID expands SiC Intelligent Power Modules platform for e-mobility

It follows major downgrades to the Lancaster field which have meant production will not be sufficient to repay bonds from cash flow.

Hurricane Energy lifts lid on debt deal that will significantly dilute value of existing shareholders

Global "Switching Mode Power Supply Market" report is an overview of the global market is provided with prime focus ...

Global Switching Mode Power Supply Market 2021 Growth Factors, Types and Application by Regional Geography 2027

Keysight Technologies, Inc. (NYSE: KEYS), a leading technology company that delivers advanced design and validation solutions to help accelerate innovation to connect and secure the world, announced a ...