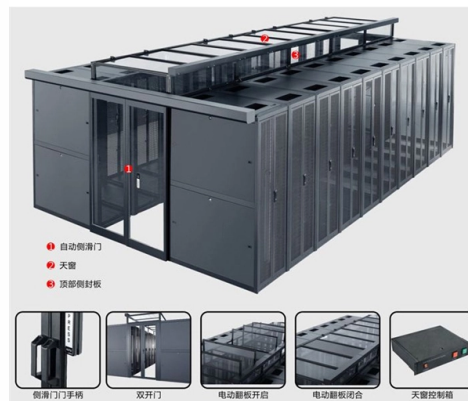


Intelligent Integrated High Voltage Power Supply



Overview

Traditional power supply designs use analog ICs with fixed functionality to provide regulated power. Advanced power module products, including IGBT, MOSFET, SiC, Si/SiC Hybrid, Diode, SiC Diode, and Intelligent Power Modules (IPMs). IGBT Modules are used in traction and in the DC-AC stages of solar inverters, energy storage systems, uninterruptible power supplies and motor drives. Below are some examples of intelligent power supply. Even with your system, you no longer need a control cabinet to power it! As the number of I/O and sensor components, controllers and HMIs that can be mounted in the field has surged in the last years, larger and larger parts of the overall controller architecture can be directly mounted on the. Texas Instruments (TI) today debuted new design resources and power-management chips to help companies meet growing artificial intelligence (AI) computing demands and scale power-management architectures from 12V to 48V to 800 VDC. The new solutions will be on display at Open Compute Summit (OCP). her a programmable voltage or current source. It provides up to 30 kW in 3 kW increments and can be configured for up to eight outputs using a wide variety of plug-in modules that an isolation transformer in medical equipment. The iHP power system also has industrial safety approvals and meets the. Artificial intelligence (AI) applications are fast-developing and require even higher power than other traditional data center applications.

Article Content

Enhance Power-Delivery Networks with High-Bandwidth

Integrated voltage regulators allow the PCB design to simplify the PDN by being placed as close as possible to the load, improving the power-delivery performance.

High Power Density, Fully Integrated Voltage Regulators

These multi-core processors require multiple voltage domains to operate with dynamic voltage scaling. In this presentation a topology for a fully integrated

Intelligent Power Supply Design Solutions

Discover Microchip's Comprehensive Intelligent Power Supply Solutions Today, power supply designers must create power conversion products that offer greater efficiency, higher power density, higher

Solution brief

With inputs from data center operators and power supply manufacturers who support them, Infineon has developed an 8 kW PSU reference board by combining Infineon's three semiconductor technologies

Intelligent integrated power supply Shanghai Xishun Electrics Co., Ltd

It is the preferred power supply product in low-voltage power supply and distribution equipment system. It provides a high quality and efficient power supply environment for users' equipment, thus ensuring

Intelligent Power Modules (IPMs): Concepts, Features,

This article provides essential information on IPMs, which offer improved performance and simplified development for high-power switching

Global and China High-Voltage Power Supply in New Energy Vehicle

The "High-Voltage Power Supply in New Energy Vehicle (BMS, BDU, Relay, Integrated Battery Box) Research Report, 2025" report has been added to ResearchAndMar...

Infineon: Architecture for power supply in AI servers of

In collaboration with NVIDIA, Infineon will develop the next generation of power systems based on a new architecture with centralized power generation through

High Voltage DC Power Supply for Intelligent Power

Although this power supply design is specific to the Intelligent Power Modules (IPM), the concepts and circuit design may be used for any power

High Voltage Power Supply (HVPS)

Multichannel High Voltage Supply systems. Flexible and scalable HVPS solutions. 19" Eurocassette, NIM, VME and more. Available as rack or benchtop versions. Multiple High Voltage Power Supplies

Intelligent power supply directly in the field

ifm's IP67 power supplies, which can be mounted directly in the field, enable decentralised power supply. This means that large distances can be realised with

Intelligent Power Supply Design Solutions Brochure

Today, power supply designers must create power conversion products that offer greater efficiency, higher power density, higher reliability, advanced communications and sophisticated control features.

High-voltage direct current HVDC PLUS®

High-voltage direct current (HVDC) transmission systems are playing an increasingly vital role in today's energy landscape, which is defined by rapid digitalization, accelerated decarbonization, and the

Infineon releases 12 kW high-density power supply unit | Infineon ...

These architectures, combined with Infineon's latest wide-bandgap technologies, achieve a power density of up to 113 W/in³. Another key feature of the 12 kW PSU reference design is the bidirectional

TI's new power-management solutions enable scalable AI infrastructures

The module integrates two power stages and two inductors with trans-inductor voltage regulation (TLVR) options, while maintaining high efficiency and reliable operation.

Can Integrated Voltage Regulators Take on AI Power

Empower Semiconductor is trying to tackle the difficulties of power delivery with what the startup calls the integrated voltage regulator.

IHP CONFIGURABLE INTELLIGENT HIGH POWER SYSTEM

The iHP power system offers developers either an analog or digital interface to their system supporting standard communications protocols, while a software graphical user interface (GUI) allows for easy

Intelligent Power Module

Intelligent Power Modules (IPMs) Intelligent Power Modules (IPMs) High voltage power modules with integrated gate drivers for consumer, industrial and automotive applications. Offering a large range of

Integrating intelligent power devices - DENA

Intelligent power devices provide increased protection and performance. What is an intelligent power device? Power MOSFET switches are used in myriad systems

Empower Semiconductor Highlights its Breakthrough AI

SAN JOSE, Calif. – March 11, 2025 – Empower Semiconductor, the world leader in integrated voltage regulators (IVRs), will showcase its scalable on-demand true

Intelligent Power Supply Design Solutions Brochure

The board has an LCD display for voltage, current, temperature and fault conditions, and an integrated programmer/debugger, all powered by the included 9V power supply.

Intelligent Power Module (IPM) Devices

Reduce design time and effort with the STPOWER portfolio of highly integrated, high-efficiency power modules for flexible, compact, and robust solutions ranging from

Unlocking the power of high voltage | TI

Designing high-voltage applications comes with a unique set of challenges. That's why our power conversion, current and voltage sensing, isolation and real-time control technologies work together to

Redefining power management through high-voltage innovation

Electrical voltages vary from tens of thousands of volts at the power plant and in regional supply lines down to fractions of a volt used internally by high-speed digital components such as embedded

A review of high-voltage integrated power device for AC/DC switching ...

High-voltage (HV) integrated power devices are widely used in many applications, including alternating current/direct current (AC/DC) power converter, HV gate driver integrated circuit

Modular Voltage Regulator Brings the Power to Big AI

Infineon Technologies is upping its game with a family of high-density dual-phase AI power modules. The cube-shaped DC-DC converters can step

Power Modules

High voltage power modules with integrated gate drivers for consumer, industrial and automotive applications. Offering a large range of 3 Phase inverter modules covering power levels from 50 W to

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