AC to DC power supply module model



Overview

Find the optimal DIN Rail products (AC-DC Power Supplies, DC-DC Converters, Accessories) for you based on the input, output power and features from our unique product range.

Key Takeaways

An AC to DC power supply module converts alternating current (AC) input into direct current (DC) output, providing regulated voltage and current for electronic devices. OverviewAC to DC power supply modules are essential components in electronics, converting the AC voltage from mains power into a stable DC voltage suitable for circuits and devices. These modules are commonly used in industrial equipment, consumer electronics, and embedded systems.

Key Specifications

Input Voltage: Typically designed to accept standard AC mains voltages (e.g., 110–240 V AC). Output Voltage: Configurable modules can provide DC voltages ranging from 2. 5 V to 48 V.

Output Current: Modules can supply currents from 2. 5 A up to 53 A, depending on the design. Power Rating: Power output ranges from 33 W to 600 W, allowing selection based on device requirements.

Types and FeaturesBoard-Mount Modules: These are compact modules that can be integrated directly onto a PCB, suitable for custom electronics designs. Configurable Modules: Some AC-DC modules allow adjustment of output voltage and current to match specific application needs. Power Factor Corrected (PFC) Modules: Improve efficiency and reduce harmonic distortion in AC power systems.

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Non-PFC Modules: Simpler designs without power factor correction, often used in cost-sensitive applications.

Applications

Powering microcontrollers, sensors, and embedded systemsIndustrial automation and control systemsLED lighting and display systemsBattery charging and DC motor drivesSourcingAC to DC power supply modules are widely available from electronics distributors such as DigiKey, Vicor, and Delta Electronics, with options for immediate shipment and a variety of power ratings and configurations. Online marketplaces like Amazon also offer modules suitable for hobbyist and prototyping purposes. Selecting the right module involves considering the required output voltage, current, power rating, and form factor, as well as whether features like adjustability or power factor correction are needed.

Article Content

AC DC Converters | Power Supplies

These modules accept mains AC input (or universal input AC of 85-264 VAC) and deliver one or more regulated DC outputs with or without isolation, filtering, and

AC-DC Power Supplies | Products | TDK Product Center

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Power Supplies

AC-DC Converters convert an alternating current input voltage (10 V to 766 VAC) to a direct current output voltage (-54.5 V to 400 VDC). The AC-DC converter can

Amazon : Ac To Dc Converter Module

3A Step Down Converter Power Converter, IP67 AC 10-28V to DC 12V Power Module, AC to DC Rectifier, Integrated SMD AC-DC Step Down Power Module for Motor, Pump, Router, Camera

Eltek DC Power Systems

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Phoenix Contact 2866776 QUINT POWER 24V 20A Industrial Power Supply ...

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2866763: A mid-capacity QUINT POWER module variant (QUINT-PS/1AC/24DC/10) providing a stable 24V DC output at 10A for intermediate panel footprints. 2866792: A heavy-duty three-phase QUINT

AC-DC Switching Power Supply Module 12V 6A 70W

Overview This power supply module converts AC input voltage (100-240V AC) to a regulated DC 12V output. It is suitable for powering a variety of devices in both residential and industrial control systems.

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Hi-Link HLK-5M05C 5M03C 5M09C 5M12C 5M24C 5W AC to DC Step-down Power ...

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Hi-Link HLK-5M05C 5M03C 5M09C 5M12C 5M24C 5W AC to DC Step-down Power Supply Module Built-in EMC Circuit Power Supply Converter

Glc65-28G Ac Dc Power Supply Module 50/60Hz 100-240V Condor

Custom Product Tab FAQ Description Condor Dc Power Supplies, Inc. Glc65 Series Model Glx65-28 Glc65-28G Manufacturer Item Number: Glc65-28 Rev B Output: 28V 2.3A Input: 100-240V~ 1.5A

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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