

Cabling from the cabinet head unit to the DC power supply unit



AI Overview

To power a car head unit from a DC power supply, connect the PSU's +12V to the head unit's B+ and ACC lines (bridged if no CAN bus), and the PSU's GND to the head unit's ground, ensuring proper handling of CAN bus signals if present.

Step-by-Step Connection

1. Identify the Wires on the Head Unit
 - B+ (Battery/Yellow wire): Provides constant 12V power.
 - ACC (Accessory/Red wire): Powers the unit when switched on.
 - GND (Black wire): Ground connection.
 - ILL (Illumination, optional): Powers display dimming or lighting.If your head unit has a CAN bus decoder, it may require a separate connection to properly manage ACC signals.
2. Prepare the DC Power Supply
 - Use a regulated 12V DC supply capable of providing sufficient current for the head unit (typically 2-5A for Android 2DIN units).
 - Ensure the PSU is turned off while making connections to avoid shorts or damage.
3. Connect Power and Ground
 - Connect the +12V output of the PSU to the B+ (yellow) and ACC (red) wires. If there is no CAN bus, these can be bridged together.
 - Connect the GND of the PSU to the head unit's ground (black wire).
4. Handling CAN Bus Units
 - If the head unit has a built-in CAN bus decoder, do not bridge ACC and B+ if the CAN bus is connected, as this can damage the decoder.
 - Either unplug the CAN bus connector and bridge ACC/B+, or connect the ACC line through the CAN bus decoder according to the manufacturer's instructions.
5. Optional Connections
 - Illumination (ILL): Connect to a 12V source if you want the display lighting active.
 - Remote turn-on for amplifiers: Connect the head unit's remote output to the amplifier's remote input using a small-gauge wire.
 - Speakers: Connect via RCA or speaker wires as per the head unit's outputs. Standard color coding is usually white/grey for front, green/purple for rear.
6. Testing
 - Turn on the PSU and verify the head unit powers up.
 - If the unit blinks or sh...

Article Content

AC to DC Converters

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Key information for developers and builders

Battery backup power supply unit (optional) nbn™ connection box General Power Outlet Min. 300mm Internal Conduit

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How to Power Server Cabinet PDUs from a UPS System

A blog guide on how to connect and power server cabinet PDUs from uninterruptible power supplies covering PDU outlet types, UPS ratings and electrical works by Server Room

Dell EMC PowerEdge MX7000 Enclosure Cabling Instruction for -48

About this document This document describes the requirements, power and safety ground cable wiring instructions for MX7000 systems equipped with a -48V DC power supply.

EN / Grounding and cabling of drive systems reference manual

The drive system in this manual consists of the supply transformer, input power cable of the drive, the variable speed drive (frequency converter), motor cable and motor.

Ground Power Unit Cable Assembly (28v DC, 400 Hz AC)

Our 28.5V DC Aircraft GPU Cable Assembly consists of (2) insulated 4/0 copper wires bound with a non-metallic band and an attached 3-pole molded aircraft

CCTV Power Supply Box, Security Camera Power

CCTV power supply box, also known as security power distribution unit, allows security camera installers to consolidate the power source of multiple cameras to

Cabling instructions for -48 to -60 DC power supply

Read and follow the safety instructions that are shipped with your product. Wire the unit with copper only (unless otherwise specified), 10 American Wire Gauge (AWG) wire rated minimum 90°C in parallel

Australian cabling standards

Access the main cabling rules and standards that apply to your work in Australia. You need to be familiar with these regulations and wiring rules.

QN PSU Manual V2V3 26-0853-5

When fitting the mains, power and signal cables to the Power Supply Unit equipment and before attaching the connectors, slide the ferrite sleeve over the cable so that it butts up against the Power

Tecmojo 1U Rack Mount 19 Outlet PDU Power

Amazon : Tecmojo 1U Rack Mount 19 Outlet PDU Power Distribution Unit Circuit Breaker fits 19-inch AV/Network/Server Cabinet/Closet/Enclosure :

PDU's: the data cabinet center of power ~ NetworkTigers

NetworkTigers discusses why PDU's are the data cabinet center of power. The exponential growth of data center network devices and high-power

Structured Cabling Solutions in the Philippines | Kital

Structured cabling is a modular system of organizing a company's cabling system and network. It serves as the central location that unifies all devices connected to

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How to Wire a DC Power Unit: A Step-by-Step Guide | Flowfit

Learn how to wire a DC power unit with our step-by-step guide. Covering essential tools, safety tips, and clear instructions, this guide ensures you properly connect your DC power unit for optimal

Julius Blum GmbH

The distribution cable is 2000 mm long and serves as a connecting cable between the power supply unit or three-way splitter cable and the bottom power profile connector.

Manual Industrial PC

The UPS software components with the corresponding drivers must be installed on the PC to operate the power supply unit as a UPS. The software components and drivers are already installed on

Hardware setup

For setting up Power Unit s with DCSatellite s continue with the steps in this section. For setting up AC Satellite s, see Hardware configuration. In this step the system starts an automatic scan for Satellite

Structured Cabling Installation: The Complete Guide

A complete guide to structured cabling installation. Learn what a structured cabling system is and why it matters for your network. Read more now!

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Business Standard

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

R61P | Power Supply Module | PLC Modular | PLC | Catalogue

279581 R61P PLC iQ-R Series; Power Supply Unit, AC input Standard Material Logistic Class: A

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PowerEdge: How to Troubleshoot a Server Power

Note: Power supply updates should be the last update made to a system, as it is guaranteed to result in downtime. PSU0003 - The Power Supply

KEMPOWER POWER UNIT INSTALLATION MANUAL

What are the different charging modes or settings available on the KEMPOWER power unit? The KEMPOWER power unit offers two main charging power

Contact Us

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