Price of a DIY Dual Power Distribution Box



Overview

Amazon.com: Power Distribution BoxBrowse power distribution boxes with circuit breaker protection and multiple outlet configurations. Shop durable solution.

Key Takeaways

A DIY dual power distribution box typically costs between $150 and $400, depending on enclosure type, circuit breakers, wiring, and additional protective features.Cost Breakdown
• Enclosure: A robust, weather-resistant NEMA-rated box is essential for safety and durability. Prices range from $50 to $150 depending on size, material (plastic or metal), and weatherproofing features .

• Circuit Breakers: A dual distribution box requires a main breaker and multiple branch breakers. Standard breakers cost $10–$30 each, while higher-amperage or specialized breakers (GFCI, AFCI) may cost $40–$60 per unit .

• Wiring and Busbars: Properly sized conductors and busbars are necessary to handle the calculated load safely. Expect $20–$50 for quality wiring and busbars, depending on amperage and length .

• Power Inlets and Receptacles: Twist-lock or standard outlets for input and output can range from $10–$40 each, with GFCI-protected outlets costing more .

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

• Miscellaneous Components: Mounting hardware, connectors, and protective covers may add $20–$50 to the total cost .
Total Estimated Cost
• Basic DIY setup: $150–$200 (plastic enclosure, standard breakers, minimal outlets)

• Mid-range setup: $200–$300 (metal or weatherproof enclosure, multiple breakers, GFCI outlets)

• Premium setup: $300–$400+ (heavy-duty metal enclosure, high-amperage breakers, surge protection, multiple GFCI/AFCI outlets) For comparison, pre-built power distribution boxes on Amazon range from $100 to $350 depending on features and amperage ratings . Building your own allows customization for specific loads, outlet types, and safety features, but requires careful adherence to electrical codes and proper load calculations to prevent overloads .
Key Considerations
• Calculate total wattage of all devices to determine breaker and conductor sizing.

• Include a safety margin of 20–25% above the calculated load.

• Ensure the enclosure is rated for the intended environment (indoor, outdoor, wet conditions).

• Follow NEC standards for wiring, breaker placement, and grounding to ensure safety. By carefully selecting components and planning the layout, a DIY dual power distribution box can be both cost-effective and tailored to your specific power needs.

Article Content

Amazon : Power Distribution Box

Browse power distribution boxes with circuit breaker protection and multiple outlet configurations. Shop durable solutions for

How to Build a DIY Power Distribution Box

Comprehensive guide to designing, calculating loads, building, and ensuring code compliance for your DIY power distribution system.

PDB Power Distribution Box with Battery Adapter (For Milwaukee,

PDB Power Distribution Box with Battery Adapter (For Milwaukee, Dewalt, Ryobi, Makita, Ridgid, and Hercules)

Portable Power Distribution Units & Boxes| LEX Products

Lex Products offers a full range of portable power distribution boxes and units, specifically engineered for

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Amazon : WayinTop PCB Double-Layer Wiring

□13-Channels Dual-Pass Power Supply□The PCB power distribution board can

Power Distribution Box, 110V Electricity Meter Electrical

Power Distribution Box, 110V Electricity Meter Electrical Box with NEMA 5-20 Power Outlet Pane,IP54

electrical

A power distribution box would be nice for connecting different loads to a generator at an off-grid job or camp site. But

Custom Power Distribution Box

I''m looking to build my own power distribution box. And hoping that someone out there can help with a few points. I''m

Power Distribution

Power Up with the Right Brands Whatever you''re looking for – from 200 amp Square D main breakers and Leviton''s load centers or

How to make a "super" extension cord (aka power distribution box)

This is an overview of a recent project making a "super" extension cord. It''s a multiple

Amazon : WayinTop PCB Double-Layer Wiring

About this item □13-Channels Dual-Pass Power Supply□The PCB power distribution board can distribute

Easy Electrical System Cabinet — Dualex Builds

This page contains the build plans that I designed in order to create a simple box to house a portable power station and run wires

I built a mini power distribution box for my home office : r/DIY

I was getting sick of having lots of piggy backed power strips underneath my desk, so I went a bit overboard and made this dedicated

Power Distribution Box, Temporary Power Distribution

Temporary Power Distribution Center supports simultaneous power supply to multiple devices, making it

Power Distribution Boxes | McMaster-Carr

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Choose from our selection of power distribution boxes in a wide range of styles and sizes. Same and Next Day Delivery.

How to Build a DIY Power Distribution Box [Safe & Professional]

Master the art of building a DIY power distribution box. Step-by-step guide on wiring, load balancing, and safety standards. Build your

Box Power Distribution & Circuit Protection at Lowes

Find Box power distribution & circuit protection at Lowe''s today. Shop power distribution & circuit protection and a variety of electrical

Power Distribution Box, 110V Electricity Meter Electrical

Power Distribution Box, 110V Electricity Meter Electrical Box with NEMA 5-20 Power Outlet Pane,IP54

electrical

A power distribution box would be nice for connecting different loads to a generator at an off-grid job or camp site. But

Custom Power Distribution Box

I''m looking to build my own power distribution box. And hoping that someone out there can help with a few points. I''m

Power Distribution

Power Up with the Right Brands Whatever you''re looking for – from 200 amp Square D main breakers and Leviton''s load centers or

How to make a "super" extension cord (aka power distribution box)

This is an overview of a recent project making a "super" extension cord. It''s a multiple

Amazon : WayinTop PCB Double-Layer Wiring

About this item □13-Channels Dual-Pass Power Supply□The PCB power distribution board can distribute

How to build a Multi-outlet Power Distribution Box (Power Strip).

In this video I will show you how to make a multiple outlet Power distribution box (Power

Anderson Powerpole DC POWER Distribution Box

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Kit includes all the parts needed to make one DC power distribution box, in a supplied 3D Printed Case. The case is made with

Building a Pro Power Distributor

Music: Ask The Ocean - Thoughts About In this video we will build a professional power

DIY Power Distribution Box

DIY Power Distribution Box STUDIOWAN Lights and Sounds Try the free video editor

Easy Electrical System Cabinet — Dualex Builds

This page contains the build plans that I designed in order to create a simple box to house a portable power station and run wires

I built a mini power distribution box for my home office : r/DIY

I was getting sick of having lots of piggy backed power strips underneath my desk, so I went a bit overboard and made this dedicated

Power Distribution Box, Temporary Power Distribution Center

Temporary Power Distribution Center supports simultaneous power supply to multiple devices, making it ideal for temporary power

Power Distribution Boxes | McMaster-Carr

Choose from our selection of power distribution boxes in a wide range of styles and sizes. Same and Next Day Delivery.

Amazon : Power Distribution Box

Browse power distribution boxes with circuit breaker protection and multiple outlet configurations. Shop durable solutions for

How to Build a DIY Power Distribution Box

Comprehensive guide to designing, calculating loads, building, and ensuring code compliance for your DIY power distribution system.

PDB Power Distribution Box with Battery Adapter (For Milwaukee,

PDB Power Distribution Box with Battery Adapter (For Milwaukee, Dewalt, Ryobi, Makita, Ridgid, and Hercules)

Portable Power Distribution Units & Boxes| LEX Products

Lex Products offers a full range of portable power distribution boxes and units, specifically engineered for

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Amazon : WayinTop PCB Double-Layer Wiring

□13-Channels Dual-Pass Power Supply□The PCB power distribution board can

DIY 12V Portable Power Box: Build Your Own Power Station – DAIER

Cost-Efficiency: You get a much higher battery capacity for your money by sourcing the battery and high-quality

Generator Power Distribution | Northern Tool

Parallel cable kits allow you to double the power of your portable generator by connecting it to another portable generator. Northern

I Tested the 220V Dual Outlet Splitter Box and Here''s Why It''s a

As someone who has recently purchased a 220V dual outlet splitter box, I understand the importance of finding the right product to

Power Distribution Boxes | McMaster-Carr

Choose from our selection of power distribution boxes in a wide range of styles and sizes. Same and Next Day Delivery.

Power Distribution Box : 5 Steps (with Pictures)

This box did not cost me very much if anything at all, being as I had almost everything on hand. Also I take no responsibility for

Amazon : Power Distribution Box

Browse power distribution boxes with circuit breaker protection and multiple outlet configurations. Shop durable solutions for

How to Build a DIY Power Distribution Box

Comprehensive guide to designing, calculating loads, building, and ensuring code compliance for your DIY power distribution system.

PDB Power Distribution Box with Battery Adapter (For Milwaukee,

PDB Power Distribution Box with Battery Adapter (For Milwaukee, Dewalt, Ryobi, Makita, Ridgid, and Hercules)

Portable Power Distribution Units & Boxes| LEX Products

Lex Products offers a full range of portable power distribution boxes and units, specifically engineered for

Amazon : WayinTop PCB Double-Layer Wiring

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

□13-Channels Dual-Pass Power Supply□The PCB power distribution board can

Contact Us

Continue your research online:

Website: https://zithatech.co.za
Technical inquiry: https://zithatech.co.za/contact.html

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

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved