

Hand-held distribution box



Overview

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Key Takeaways

Hand-held distribution boxes are portable enclosures designed to house electrical or electronic components, offering protection, portability, and ergonomic handling for mobile or desktop applications.

Hand-held distribution boxes are compact, portable units used to distribute power or house electronic devices safely. They are designed for ease of use, durability, and protection of internal components. These boxes are commonly used in industrial, IoT, testing, and mobile electronics applications .

Types and Materials

- **Plastic Enclosures:** Lightweight, often made from flame-resistant ABS, suitable for electronics like controllers, RFID devices, GPS units, and small testing devices. Many models include battery compartments and snap-in assembly for easy access .
- **Aluminum or Hybrid Enclosures:** Provide extra durability and heat dissipation, often used for industrial or outdoor applications. Some models combine ABS plastic panels with extruded aluminum for ruggedness .

- **Mobile Power Distribution Boxes:** Designed specifically for power distribution, with outlets at the front and circuit breakers at the back. Raised housing edges protect sockets and breakers from physical damage, and side handles enhance portability .

Key Features

- **Ergonomic Design:** Rounded edges, comfortable grip, and fatigue-free operation for handheld use .
- **Protection Ratings:** Many enclosures offer IP54 to IP65 protection against dust and water, suitable for indoor and outdoor environments .
- **Battery Compartments:** Options for N, AAA, AA, C, or 9V batteries, allowing portable power supply for electronics .
- **Mounting and Accessories:** Internal mounting points for PCBs, display modules, connectors, and optional accessories like belt clips, lanyards, desk/wall stations, and tilt stands .
- **Color and Size Options:** Available in multiple sizes and colors, often with silicone end caps for shockproof and anti-slip protection .

Applications

- **Electronics Prototyping:** Housing microcontrollers, sensors, and small devices.
- **Mobile Power Distribution:** Temporary or portable power setups for events, workshops, or field operations.
- **IoT and Remote Devices:** Enclosures for RFID tags, GPS trackers, and remote controllers.
- **Testing and Measurement:** Portable cases for small testing instruments and controllers.

Purchasing Options

Suppliers like Mouser Electronics and OKW offer a wide range of hand-held enclosures with detailed specifications, datasheets, and online ordering options . Selection can be based on size, material, battery type, protection rating, and intended application. Hand-held distribution boxes combine portability, protection, and versatility, making them essential for mobile electronics, fieldwork, and compact power distribution setups.

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

