

Industrial Grade Iron Plate Distribution Box



Overview

Choose from our selection of J-boxes, including steel outlet boxes, steel switch boxes, and more. Same and Next Day Delivery.

Key Takeaways

Industrial-grade iron plate distribution boxes are robust electrical enclosures designed for safe, durable, and customizable power distribution in harsh industrial environments. Construction and Material

Industrial distribution boxes are typically made from high-quality iron or stainless steel, often treated with powder coating, epoxy, or galvanization to resist corrosion, rust, and chemical exposure, making them suitable for industrial plants, coastal areas, and wastewater facilities. The thickened metal structure ensures mechanical strength, supporting heavy electrical components and protecting sensitive circuitry from impact and environmental hazards.

Protection Ratings

These boxes are rated according to IP (Ingress Protection) or NEMA standards to ensure safety and reliability:

- IP54: Protected against limited dust ingress and water splashes
- IP65/IP66: Dust-tight and resistant to low- or high-pressure water jets

- IP67: Can withstand temporary immersion in water up to 1 meter High IK ratings (IK08 or IK10) indicate resistance to mechanical impacts, ensuring durability in industrial settings .

Internal Components

Industrial distribution boxes house essential electrical components such as:

- Bus bars for power distribution
- Circuit breakers to prevent overloads
- Fuses as fail-safes
- Residual Current Devices (RCDs) for shock protection
- Surge protection devices to guard against voltage spikes Customizable internal layouts allow for tailored busbar arrangements, cable entry modifications, and mounting brackets to fit specific industrial requirements .

Customization and OEM Options

Many manufacturers offer OEM/ODM services, including:

- Custom dimensions and wall-mounted or modular designs
- Explosion-proof or outdoor-rated enclosures
- Logo embossing and branding
- Optimized cable management and ventilation
- Prototypes in 7 days, bulk orders in 4–6 weeks These options ensure the distribution box meets specific operational, environmental, and regulatory requirements.

Additional Features

- Tempered glass doors for monitoring without opening the box
- Ventilation slots for heat dissipation
- Strong load capacity (up to 60 kg) for heavy-duty devices
- Weatherproof gaskets and conduit knockouts for long-term reliability

Applications

Industrial-grade iron distribution boxes are widely used in:

- Factories and manufacturing plants
- Energy and automation systems
- Outdoor substations and coastal installations

- Commercial buildings requiring robust electrical protection
Maintenance and Safety

Regular inspection of seals, grounding, and ventilation ensures long-term performance. Matching the material and protection rating to the installation environment is critical to prevent premature failure and maintain compliance with electrical codes . These enclosures provide durable, safe, and efficient power distribution, making them essential for industrial and commercial electrical systems.

Article Content

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Distribution enclosure, Distribution box

Used for strong current connection of high voltage distribution box, all-in-one controller, battery box and

Distribution Box

Metal Distribution Box Features Continuously welded seams Foam-in-place seamless gasket 120-degree opening heavy-duty

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Metal distribution box (26) Ventilation grid (3) Plastic safety lock (2) Masked metallic power distribution box (13) Metal plate power

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Our powder-coated steel distribution box is designed to offer a rugged, reliable, and affordable solution for

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Iron Box can stock, build, or source just about any power cord. Some types of power cables they offer include generator, server,

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Distribution Box

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

