

Dimensions and Specifications of Charging Pile Distribution Box



Overview

Indoor and Outdoor Wall Mount Charging Pile Distribution Box. Whether installed in a covered parking area or exposed to the elements, this purpose-built.

Key Takeaways

Charging pile distribution boxes typically follow compact, modular designs with dimensions suitable for both indoor and outdoor installations, accommodating AC/DC charging piles from 7kW to 120kW.

General Dimensions and Structure

Charging pile distribution boxes are designed to be space-efficient and accessible for maintenance. Common features include: Wall-mounted or floor-standing types for indoor and outdoor use. Cabinet height: Typically ranges from 1200 mm to 1800 mm, width 600 mm to 800 mm, and depth 300 mm to 500 mm, depending on the number of circuits and protection devices.

Material: Cold-rolled sheet steel or stainless steel, thickness around 3-3.5 mm for structural panels, ensuring durability and weather resistance. Protection rating: IP43 for standard outdoor use, with IP65 options for high-humidity or rain-prone areas.

Mounting: Floor-mounted panels often include structural frames with angle supports (e.g., 75x75x6 mm), while wall-mounted boxes have secure brackets for stability.

Internal Layout

Circuit accommodation: Designed to house circuit breakers, busbars, wiring, and protection devices for multiple charging piles. Cable entry: Bottom entry with detachable gland plates, allowing easy termination and earthing. Ventilation: Louvers with screens or filters to prevent dust ingress while maintaining airflow.

Doors and panels: Removable, gasket-sealed doors for safety and weatherproofing.

Compatibility and Customization

Supports AC/DC charging piles from 7kW to 120kW, suitable for residential, commercial, and public fast-charging stations. Optional features include waterproof top covers, lifting rings, and fire-proof current-limiting protectors for enhanced safety. Modular design allows expansion for multiple charging points while maintaining compact dimensions.

Summary

Charging pile distribution boxes are engineered to balance compact size, safety, and accessibility, with standard dimensions generally around 1200–1800 mm height, 600–800 mm width, and 300–500 mm depth, constructed from durable materials, and designed to meet IP43–IP65 protection standards. They are compatible with a wide range of EV charging piles and can be customized for specific installation environments.

Article Content

Indoor and Outdoor Wall Mount Charging Pile Distribution Box ...

Whether installed in a covered parking area or exposed to the elements, this purpose-built distribution box delivers consistent performance and protection for your EV charging infrastructure.

Charging pile distribution box

Main uses: It is mainly used for power distribution, circuit control and protection of electrical faults. It can be widely used in industrial production, charging piles, construction, commercial places and other

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What Is an EV Charging Pile Special Box Substation?

Among all core power supply equipment for EV charging stations, the charging pile special box substation has become the preferred power distribution solution for commercial charging

Charging Pile Protection Box Waterproof Distribution Box

Charging Pile Protection Box Waterproof Distribution Box, Find Details and Price about Charging Pile Protection Box Charging Box from Charging Pile Protection

Charging Pile Specification

This charging system is a floor-standing intelligent charging device developed by our company according to the charging technical requirements of the AGV battery pack.

Special Distribution Box for Electric Vehicle Charging Piles

The distribution cabinet in a shopping mall is a key facility in the power supply system, mainly used for receiving, distributing, and controlling electrical energy.

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DC Distribution Box for EV Charging Stations 2026

Learn how DC distribution boxes protect EV charging infrastructure at 1000V DC. Covers busbar design, fault isolation & IEC standards. Get expert guidance.

Charging pile

The charging pile installation and maintenance could only be operated by qualified electric engineers. Maintenance and inspection must not be carried out until discharge is confirmed complete

Dimensions of Charging Pile Electrical Boxes and Distribution Boxes ...

Electric Vehicle Wall Mounted EV Charging Pile Features□ * Shell material: metal+tempering glass * Box dimensions: 70*25*50CM * Column dimensions: 80*30*20CM * Working temperature: -25~50 °C

Charging Pile Waterproof Distribution Box Outdoor Circuit Breaker

Charging Pile Waterproof Distribution Box Outdoor Circuit Breaker Open Box Ha-12ways, Find Details and Price about Distribution Box and Junction Box from Yueqing Beigang Electric Co., Ltd.

Charging pile distribution box

1. Product name: Charging pile distribution box 2. Main uses: It is mainly used for power distribution, circuit control and protection of electrical faults. It can be widely used in industrial production,

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