Outdoor Telecom Enclosure Upgrade Exterior WPC Wall Panel with Outdoor Powder Coating

Our Product Introduction

Basic Information

- Place of Origin: SHENZHEN
- Brand Name: daxin
- Certification: CE
- Model Number: ODC-210909C2T-200AH
- Minimum Order Quantity: 1 pcs
- Packaging Details: Woodcase/ Paper box
- Delivery Time: 15-25 days
- Payment Terms: T/T
- Supply Ability: 10000pcs/month

Product Specification

- Features: Commercial Power Safe, Industrial Commercial Storage, Commercial Energy Backup
- Product Name: Outdoor Telecom Cabinets
- Surface Coating: Outdoor Powder Coating
- Energy Storage System Type: Industrial And Commercial
- Product Category: Outdoor Telecom Cabinets
- Packaging: Wooden Crate Or Cardboard Box
- Size: 900mm*900mm*2105mm
- Highlight: **powder coating outdoor telecom cabinets**, **powder coating outdoor telecommunication cabinets**, **commercial outdoor telecom cabinets**

Outdoor Telecom Enclosure Upgrade Exterior WPC Wall Panel with Outdoor Powder Coating

Overview

These cabinets are essential for housing telecom equipment such as routers, switches, and base station components, especially in remote or outdoor locations where environmental factors need to be considered.

Key Components

Cabinet Structure

Material: Typically made from weather-resistant materials like aluminum or stainless steel to withstand environmental conditions (rain, snow, UV exposure).

Size: Varies based on equipment size and configuration. Often designed for easy access and maintenance.

Power System

AC and DC Power Inputs: Accepts power from the grid or renewable sources (solar, wind).

Rectifiers: Convert AC to DC to power telecom equipment. They ensure stable voltage output and high efficiency.

Power Distribution Unit (PDU): Distributes power within the cabinet to various devices.

Surge Protection: Protects equipment from electrical surges and spikes.

Battery Backup

Battery Type: Commonly uses sealed lead-acid (SLA) or lithium-ion batteries for efficient energy storage.

Battery Management System (BMS): Monitors battery health, charge levels, and ensures safe operation.

Integration: The battery system is integrated to automatically switch to backup power during outages.

Cooling and Ventilation

Passive Cooling: Heat sinks and vents to allow natural airflow.

Fans: Active cooling solutions may be installed to maintain optimal operating temperatures, especially in high-density configurations.

Environmental Monitoring

Sensors: Monitor temperature, humidity, and other environmental factors to ensure optimal operating conditions.

Remote Monitoring: Systems can send alerts and data to operators for proactive management.

Security Features

Locking Mechanisms: Secure access to prevent tampering or theft of equipment.

Alarm Systems: Alerts for unauthorized access or environmental conditions beyond set thresholds.

Key Features

Weatherproof Design: Built to withstand harsh outdoor conditions.

Modular and Scalable: Allows for easy upgrades or additions to accommodate changing technology.

Energy Efficiency: Designed to minimize energy consumption while maximizing performance.

Compliance: Meets industry standards for safety and environmental considerations.

Applications

Cellular Base Stations: Powers communication equipment in mobile networks.

Remote Monitoring Stations: Houses sensors and communication devices for environmental monitoring.

IoT Infrastructure: Supports smart city applications and remote IoT devices.

Utilities and Public Safety: Powers communication systems for emergency services and infrastructure monitoring.

Benefits

Reliability: Ensures continuous operation of telecom services in remote locations.

Operational Efficiency: Integrated power and battery systems reduce downtime and maintenance needs.

Flexibility: Easily adaptable to different equipment and technology changes.

Product list

Number	Name/Description	Specification/Model	Parameter
1	Outdoor integrated power cabinet	900*900*2150	A. Cabinet dimensions: W × DxH900 * 900 * 2150mm; Internal dimensions: W × DxH800 * 800 * 1800mm B. Cabinet composition: cabinet body+cabinet door+base+top cover+rack+battery layer board+cabinet lock C. Cabinet type: 1 unit, 1 compartment, front door, floor mounted D. Cabinet material: 1.5mm galvanized sheet; E. Thermal insulation performance: thermal conductivity<0.472W/(m2. k); F. Upper equipment rack: 19 inch rack, 22U, 3 pairs of support bars, 1 pallet; The lower two battery racks can accommodate up to 2 sets of 48200AH lead-acid batteries; G. Cabinet base: 100mm high, 2.0mm thick; H. Entry method: Bottom in and bottom out with a diameter of 50 * 4; I. Anti theft design: embedded doors, embedded links, point type anti-theft locks; J. Protection level: IP65; K. Color: RAL7035, professional outdoor powder coating; L. Screen printing of cabinet with "Danger of Electricity" label; M. Including grounding copper bar, LED light, door magnetic switch, and cooling fan (optional)
2	Embedded switch power supply 200A	ET-PS48200Z-6U	Standard 19 inches, embedded plug-in frame 3U high; AC input 220V, DC output 48V; Equipped with 3 30A rectifier modules and 1 monitoring and management module; Capable of battery charging management; Distribution section: AC input: air switch DZ47-63/2P C63 63A/2P * 1; Three phase AC C-level lightning arrester 20-40KA; Communication output: Air switch DZ47-63/2 C32 32A/2P * 1; Ground wire terminal * 1; DC C-level lightning arrester 20-40KA 1P * 1; DC output: One power outage: DZ47-63/1 C63 63A/1P * 3, Secondary power off: DZ47-63/1 C63 63A/1P * 3; Battery empty switch: DZ47-125/1 125A/1P * 2.
3	Distribution unit (optional/customizable)	3U	19 inch 3U high embedded plug-in frame, AC380V input, 63A/4P × 2 (AC input, oil engine input+mechanical interlock plate), three-phase B-class lightning arrester × 1, 63A/3P × 1, 32A/1P × 2, 16A/1P × 2, 10A/1P × 1, 6A/1P × 1, three hole maintenance socket × 1, ground row × 1, zero row × 1.
4	Lithium battery/lead-acid battery (optional)	3u 100AH	48V 100AH
5	FSU	1U	8 RS485 serial ports, 8 DI inputs, 4 DO dry contact outputs, 1 mains power status detection input, 1 water immersion detection input, 1 built-in vibration sensor, 1 USB interface, 1 RJ45 IP port, 1 console debugging port, port lightning and surge protection. The software comes with a web management interface, which allows for the configuration of the collector through a web browser, as well as the viewing of real-time collected data, alarms, and controls. Historical data and alarms can also be queried; Support centralized monitoring through SNMP or B interface access to the backend monitoring system.
6	Camera	2 million infrared hemisphere	
7	UPS	3KVA	
8	Communication air conditioning	1500W	AC 220V

Main equipment for cabinet processing (Three main equipment)

Laser

TRUMATIC500- Fully Automatic

TRUMATIC500- Fully Automatic
Japan AMADA - Fully Automatic

- ➤ 1500W: 1tower
- ➤ 3000W: 2tower

➤ Fast data punching: 4 units with automatic loading and unloading

➤ Japan AMADA: 7 units with automatic loading and unloading
➤ Model: EM-2510NT/AC-2510NT

Key process - general punching, bending, and riveting workshop

➤ Japan AMADA: 25 units
➤ Model: RG-35S

➤ TOX riveting machine: 24 units

➤ Puchong: 5 units (160T+250T+300T)

Key Process - Copper and Aluminum Product Workshop (Integrated Cutting and Punching Machine)

➤ Copper bar integrated machine: 2 units
➤ Model: LID-30
➤ Features: high-precision automatic cutting and punching
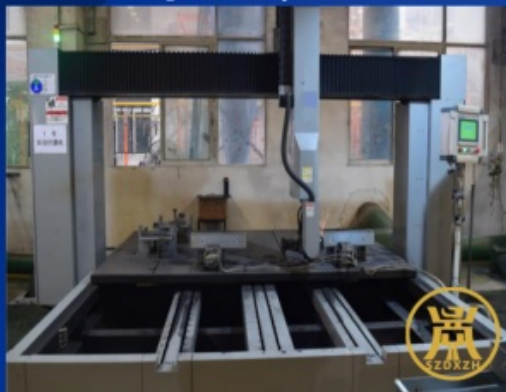
Key Process - Welding Workshop

Fully automatic, 360 degree rotating welding line features: Welding accuracy: Welding displacement less than 1.5 mm, welding flip angle less than 0.1 degrees. Welding software: Our self-developed welding control software v1.3 version can store up to 128 welding programs. Scan the product code to initiate the welding program, automatically switch between dual platforms, seamlessly connect, and achieve uninterrupted welding. Welding dimensions: Product height 2.8 meters, width 1.5 meters. Welding capacity: 11 fully automatic welding robots and 47 welders. Monthly output of 20000 to 25000 cabinets.

Key Process - Polishing Workshop

●Automatic polishing machine: 2 units, equipment can be increased according to product demand.
●Manual polishing stations: 15, with manpower allocated according to the product structure.

Key Process - Metal Surface Treatment (Fully Automated)

Surface treatment line 1 (parts category)

Surface treatment 2-wire (cabinet type)

Surface treatment 2-wire (cabinet type):
● Full-process foolproofing: Unmanned operation, the system automatically performs surface treatment according to predefined process paths based on different materials, eliminating quality risks caused by human errors.
● Continuous monitoring: The system continuously monitors the pH level of the solution and automatically initiates the addition of the solution based on the monitoring results.
● Monthly capacity: Over 20,000 large cabinets

Key process - Metal parts electroplating workshop (automated assembly line)

Central Conveyor Platform

Integrate packaging, automatic production line, tunnel oven, and packaging into a whole assembly line to reduce the intermediate loading and unloading process and d eper

Remote control platform

Enables remote monitoring and control, and schedules real-time production

Pre processing procedure

With a total length of 35 0 meters, it can simultaneously address each issue point of various aluminum alloy products.

Copper plating production process

Set up 13 copper plating tanks to simultaneously electroplate 65 units of products. Each set of 5 units is equipped with an independent 1500A 48 V communication rectifier.

Tin plating production process

Use tin plating with methyl sulfonic acid, replacing the previous sulfuric acid-based plating process.

Fully automatic conversion vehicle

Perfectly connect three fully automated production lines into an automated production platform

X-ray thickness measurement equipment

Fischer film thickness gauge imported from Germany.

tin-plating   tin-plating   tin-plating   tin-plating

nickel plating   silver-plated   chrome plating   tin-plating

Key process - Spray painting workshop (3 main lines+1 auxiliary line/small batch)

Reciprocating machine (automatic powder spraying)

Automatic Line 1

Automatic Line 2

Automatic Line 3

Characteristics of Spray Line:
- ◆ Characteristics of Spray Line: The system monitors the furnace temperature in real-time, and when the oven temperature does not meet the standard The system monitors the furnace temperature in real-time, and when the oven temperature does not meet the standard
- ◆ Automatic spraying: Reciprocating machine automatic spraying ensures uniform thickness and aesthetic appearance of the coating.
- ◆ Equipment resources: 3 main lines+1 auxiliary line, which can simultaneously meet the needs of different colors;
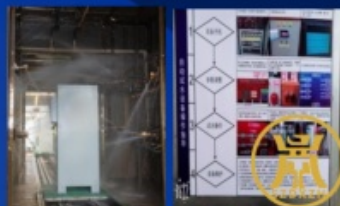- ◆ Daily production capacity: 15,000 to 20,000 square meters per day

Key Process - Product Assembly Workshop

Large cabinet assembly line

Small cabinet with assembly line

IPX6 Spray Water Testing System

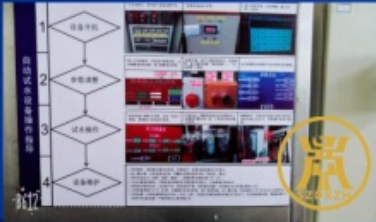Small chassis wiring assembly line

Outdoor cabinet product assembly line

High voltage product assembly line

Key process - outdoor cabinet waterproof testing assembly line

■Pipeline standard: IPX1-IPX5 waterproof rating, which can be adjusted and matched according to product requirements.

Trial water process diagram

Test water