Indoor Power Cabinet With Photovoltaic Module And Battery For Energy Back Up

Our Product Introduction

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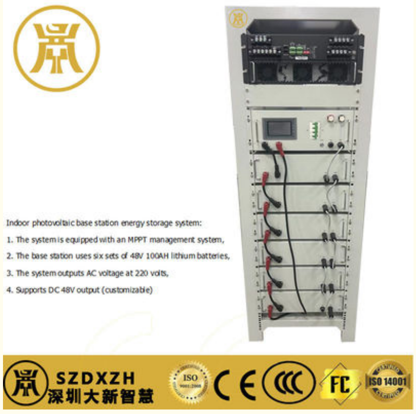
Basic Information

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



Indoor photovoltaic base station energy storage system:

1. The system is equipped with an MPPT management system,
2. The base station uses six sets of 48V 100AH lithium batteries,
3. The system outputs AC voltage at 220 volts,
4. Supports DC 48V output (customizable)

Product Specification

Internal Size:	W×D×H 800×900×2150mm
Cabinet Lock:	Anti-theft Three Point Lock
Protection Level:	IP55
Cabinet Layout:	Two Compartment
Battery Shelf No:	Yes
Illumination:	LED LAMP
Layout:	2 Compartments
NAME:	Indoor Photovoltaic Base Station Energy Storage System
Highlight:	**Indoor Photovoltaic Base Station**, **2 Compartments Photovoltaic Base Station**, **IP55 Protection Level Photovoltaic Base Station**

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Product Description

Indoor Power Cabinet With Photovoltaic Module And Battery For Energy Back Up

Indoor Power Cabinet Technique parameter

Input	PV input
Output Voltage	AC220V/DC48V
Battery	6*48V 100AH lithium batteries
System	MPPT management system
Capacity	Customized
Backup time	Customized

Indoor Power Cabinet Features

Weather Resistance

IP Ratings: Typically rated IP65 or higher to ensure protection against dust and water ingress.

UV Protection: Materials that resist degradation from sunlight, preventing fading and structural damage.

Durable Construction

Material Options: Made from corrosion-resistant materials such as stainless steel, aluminum, or high-density polyethylene (HDPE).

Reinforced Design: Built to withstand impacts, vibrations, and extreme weather conditions. Insulation and Temperature Control

Thermal Insulation: Helps maintain stable internal temperatures, protecting sensitive equipment.

Cooling Options: Passive ventilation or active cooling systems to prevent overheating.

Security Features

Lockable Doors: Secure access to prevent unauthorized entry and tampering.

Alarm Systems: Optional intrusion alarms for enhanced security.

Modular Design

Configurable compartments for organizing various types of equipment, including power supplies, batteries, and control systems.

Cable Management

Integrated features for organizing and protecting cables and connections, reducing clutter and enhancing safety.

Grounding and Bonding

Provisions for proper grounding to protect equipment from electrical surges and lightning strikes.

Accessibility

Designed for easy installation and maintenance, with removable panels or doors for quick access.

Specifications

Size Options: Available in various sizes to accommodate different equipment types and configurations.

Weight Capacity: Rated to support the weight of housed equipment and additional components.

Temperature Range: Designed to operate within specified temperature ranges to protect sensitive electronics.

Indoor Power Cabinet Applications

Telecommunications

Protects radio equipment, antennas, and backup power systems in outdoor telecom installations.

Renewable Energy

Used in solar and wind installations to house inverters, batteries, and control systems.

Transportation

Enclosures for traffic management systems, signal controllers, and communication equipment for public transportation.

Utilities

Safeguarding electrical distribution equipment and monitoring systems in outdoor utility applications.

Industrial Automation

Protecting control panels and power supplies in outdoor manufacturing and processing facilities.

Public Safety

Housing communication systems and backup power for emergency services in outdoor environments.

Smart City Applications

Enclosures for IoT devices, environmental sensors, and connectivity solutions in urban areas.

Indoor power cabinet Benefits

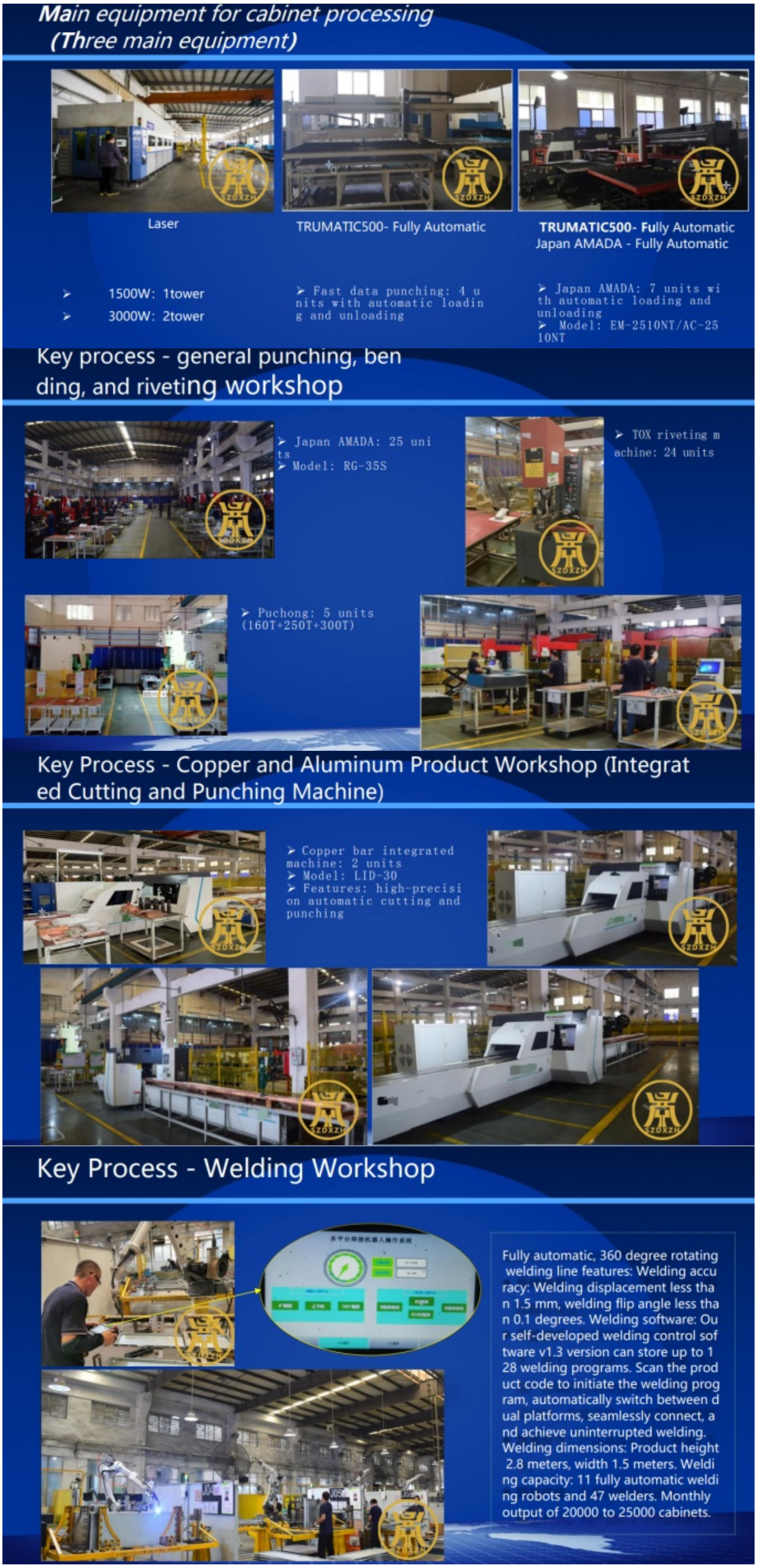
Increased Durability: Designed to withstand harsh environmental conditions, ensuring long-term reliability.

Improved Safety: Protects sensitive electrical equipment from environmental hazards, reducing the risk of failure.

Efficient Operation: Maintains optimal performance through effective temperature management.

Versatile Applications: Suitable for a wide range of industries and environments, enhancing operational flexibility.

About Us



Main equipment for cabinet processing (Three main equipment)

Laser

- 1500W: 1tower
- 3000W: 2tower

TRUMATIC500- Fully Automatic

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

TRUMATIC500- Fully Automatic
Japan AMADA - Fully Automatic

- Japan AMADA: 7 units with automatic loading and unloading
- Model: EM-2510NT/AC-25 10NT

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)

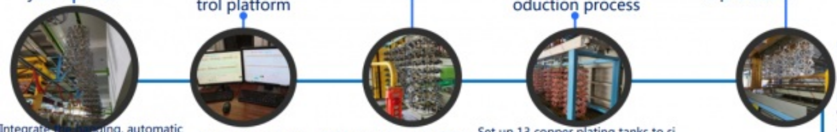
Surface treatment line 1 (parts category)

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 the hanging, automatic production line, tunnel oven, and packaging into a whole assembly line to reduce the intermediate loading and unloading process and dep

Remote control platform

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

Pre processing procedure

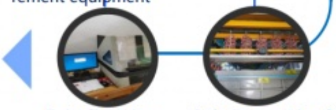
With a total length of 35 meters, it can simultaneously address each issue point of various aluminum alloy products.

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 48V communication rectifier.

Tin plating production process

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

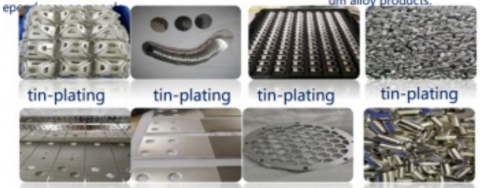


Fully automatic conversion vehicle

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

X-ray thickness measurement equipment

Fischer film thickness gauge imported from Germany.



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

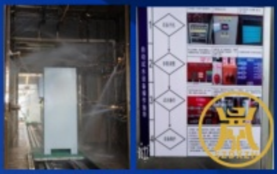
Characteristics of Spray Line:

- 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

Key process - outdoor cabinet waterproof testing assembly line

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Trial water process diagram

Test water

Supply capacity 2 - Complete machine assembly and commissioning

◆ There are a total of 8 production processes for electrical installation and debugging:

- ⑩ Wiring
- ⑪ Safety testing
- ⑫ Whole machine wiring
- ⑬ Whole machin debugging
- ⑭ FQC
- ⑮ OQA
- ⑯ package
- ⑰ deliver

1. 15 standard assembly lines ensure better control over production efficiency.
2. Key positions for assembly require 220 people, testing requires 25 people, and process engineering requires 15 people, capable of fulfilling monthly delivery tasks for 20,000 complete units.
3. Various automated testing platforms guarantee product reliability and market quality.
4. Collaboration with world-class companies like Huawei ensures a comprehensive production model and high-quality management system.

Electrical installation workshop 1

5 matching frame insertion assembly lines

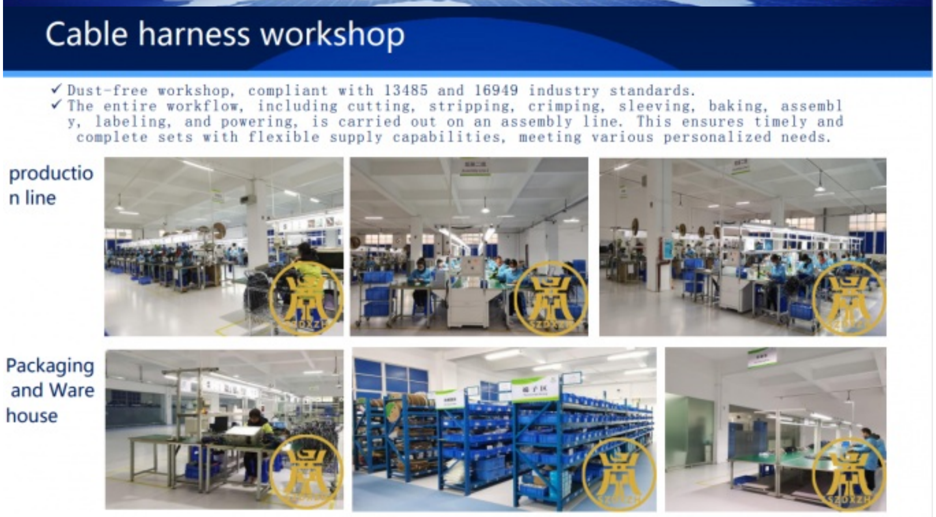
High-power product assembly

Product safety testing

High-voltage product testing

Electrical installation workshop 2

插框流水线
Subrack Assembly Line



Cable harness workshop

- ✓ Dust-free workshop, compliant with 13485 and 16949 industry standards.
- ✓ The entire workflow, including cutting, stripping, crimping, sleeving, baking, assembly, labeling, and powering, is carried out on an assembly line. This ensures timely and complete sets with flexible supply capabilities, meeting various personalized needs.

production line

Packaging and Warehouse