Power system cabinet 48V 200A-1600A communication power supply

Basic Information

- Place of Origin: shenzhen
- Brand Name: daxin
- Certification: CE,UL
- Model Number: DX48400
- Minimum Order Quantity: 10
- Packaging Details: Wooden pallet+cardboard box
- Payment Terms: L/C,T/T
- Supply Ability: 10000pcs/month

32PCS

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Product Specification

- Input Voltage: 100-240V
- Humidity Range: 10% To 95%
- Installation Method: Floor Installed
- Product Category: Communication Power Supply
- Capacity: 48V/10A~600A
- Temperature Range: -40°C To 55°C
- Internal Dimension: W×D×H 482.3×380×44mm
- Cabinet Layout: One Compartment
- Highlight: **1600a communication power supply,**
  200a cabinet power supply,
  200a communication power supply

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Product Description

48V 200A-1600A Communication Power Supply Cabinet

Product Overview

A robust power system cabinet designed for telecommunications applications, featuring VSM-B control module and VRM48 rectifier module with AC-DC distribution unit. This high-capacity solution (48V/10A-600A) offers exceptional reliability for critical communication infrastructure.

Key Features

- Flexible installation: rack-mountable or standalone floor installation
- High efficiency with power factor correction
- Wide input voltage range (100-240V) for network adaptability
- Superior electromagnetic compatibility
- Integrated lightning protection with input/output arresters
- RS485/RJ45 interfaces for centralized monitoring
- Advanced battery management including LVBD and temperature compensation
- Parallel redundant system for maximum reliability
- Bilingual Chinese/English interface

Technical Data				
	DXE48200	DXE48400	DXE4830	DXE48600
Input				
Rated voltage	Single phase 220Vac			
Operation voltage range	90~300Vac			
Frequency	50/60Hz±10%			
Power factor	≥0.99			
Output				
Voltage	48V(40~58Vdc adjustable)			
Current	50-200A	50-400A	50-300A	50-600A
Power(Max)	11.6KW	23.2KW	17.4KW	34.8KW
Current sharing at paralleling	≤±3%			
Voltage stability precision	≤±0.6%			
Efficiency	≥91%			
Other data				
Dimension(W*D*H) (mm)	482×280×264	482×280×440	600×400×1200	600×400×1600
Weight	30kg	45kg	130kg	150kg
Battery Input	100A*2	100A*2	300A*2	500A*2
Load Output	(10-63)A*10	(10-63)A*10	100A*3 63A*3 32A*4 10A*2	160A*2 100A*2 (10-63)A*10

Technical Data		
	DXRM4850	DXRM4850H
Input		
Rated voltage	Single phase 220Vac	
Operation voltage range	90~300Vac	
Current	≤18.5A	
Frequency	50/60Hz±10%	
Power factor	≥0.99	
Output		
Voltage	48V(40~58Vdc adjustable)	
Current	50A@58	
Current sharing at paralleling	≤±3%	
Voltage stability precision	≤±0.6%	
Protection	Over voltage, over current, output short-circuit and over temperature	
Other data		
Efficiency	≥92%	≥95%
Cooling mode	Fan cooling	
Operating temperature	-10~+55℃	
Degree of protection class	IP20	
Ripple voltage	≤200mVpp	
Phosphometric noise	≤2mVrms	
Load effect	≤±0.5%	
Restoring time of load effect	≤200μs	
Source effect	≤±0.1%	
Dimension (mm)	106(W) ×218(D) ×83.8(H)	
Weight	2.2kg	
EMC		
Emission	Ac input in accordance with EN50081-1 and EN50081-2; DC output in accordance with EN50081-2	
Immunity	In accordance with EN50081-1, EN50081-2	
Safety	In accordance with IEC950, EN60950, EN41003, UL1950, AS/NZ3260	

Technical Specifications

Attribute	Value
Input Voltage	100-240V
Capacity	48V/10A~600A
Temperature Range	-40°C to 55°C
Humidity Range	10% to 95%
Internal Dimensions	482.3×380×44mm (W×D×H)
Installation Method	Floor or 19-inch rack mounted
Cabinet Layout	One compartment
Surface Finish	Outdoor powder coating

Rectifier Features

- Hot-pluggable design for easy maintenance
- Forced air cooling system
- Thermal protection mechanism
- Power factor corrected
- Wide input AC voltage range
- Constant power output limit
- Comprehensive input/output protection
- Active load sharing capability

- Serial alarm and control interface
- Microprocessor controlled operation

Applications

Ideal for various communication equipment including:

- Telecom infrastructure
- Data center network equipment
- Security monitoring systems
- Broadcast and television equipment
- Emergency lighting systems
- Instrument power requirements

Product Support

Our comprehensive support package includes:

- 24/7 remote technical assistance
- On-site troubleshooting services
- Regular firmware updates
- Maintenance personnel training
- Extended warranty options
- Custom system design services

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
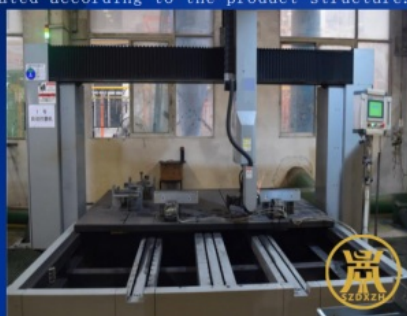
Key Process - Welding Workshop

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.
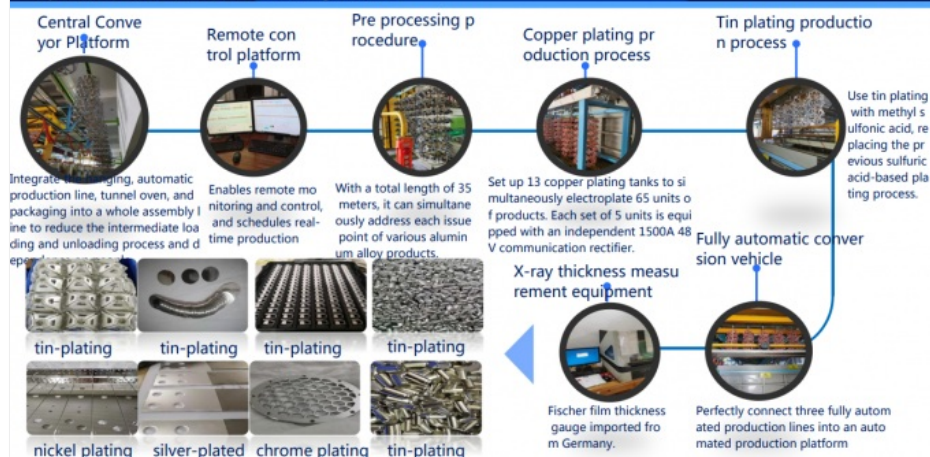
Key Process - Polishing Workshop

● 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 parts electroplating workshop (automated assembly line)

Central Conveyor Platform
Integrate hanging, 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 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.

X-ray thickness measurement equipment
Fischer film thickness gauge imported from Germany.

Fully automatic conversion vehicle
Perfectly connect three fully automated production lines into an automated production platform

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;

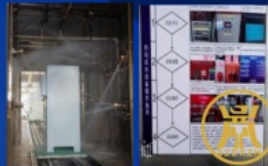◆ Daily production capacity: 15,000 to 20,000 square meters per day

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

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