Chatsworth P5-1C0A5

Chatsworth P5-1C0A5 Switched Vertical eConnect PDU User Manual

Model: P5-1C0A5

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Chatsworth P5-1C0A5 Switched Vertical eConnect Power Distribution Unit (PDU). Please read this manual thoroughly before using the product and retain it for future reference.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the PDU or connected equipment:

- Ensure the PDU is installed by qualified personnel in accordance with all local and national electrical codes.
- Do not open the PDU enclosure. There are no user-serviceable parts inside.
- Connect the PDU only to a properly grounded power source.
- Do not overload the PDU. The total current draw of connected devices must not exceed the PDU's rated capacity (20A).
- Operate the PDU within its specified environmental conditions, including the maximum ambient temperature of 149°F (65°C).
- Disconnect power before performing any maintenance or installation procedures.

3. PRODUCT OVERVIEW

The Chatsworth P5-1C0A5 is a Switched Vertical eConnect PDU designed for efficient power distribution and remote management in data center environments. It features 24 individually switched 5-20R outlets, a graphical local display, and comprehensive network monitoring capabilities.

Image 1: Overview of the Chatsworth P5-1C0A5 PDU. This image displays the vertical PDU with its numerous 5-20R outlets, labeled circuit breakers (CB1, CB2, CB3), and the integrated control panel featuring a graphical display, navigation buttons, Ethernet ports, and a USB port.

Key Components:

- **L5-20 Input Plug:** For connecting the PDU to the main power source.
- **Circuit Breakers (CB1, CB2, CB3):** Provide overcurrent protection for groups of outlets. Each breaker has an ON/OFF switch.
- **5-20R Outlets:** Twenty-four (24) individually switched outlets for connecting IT equipment.
- **Graphical Local Display:** Provides real-time power monitoring, configuration, and status information directly on the unit.
- **Ethernet Ports:** For network connectivity, enabling IP-based remote monitoring and management.
- **USB Port:** Used for firmware updates and configuration backups.
- **Serial Port:** For direct console access and management.

4. SETUP

4.1 Mounting

The P5-1C0A5 is a vertical PDU designed for tool-less mounting in standard server racks. Ensure the rack has appropriate mounting points and sufficient space for the PDU and its connected cables. Refer to your rack's documentation for specific mounting instructions.

4.2 Power Connection

1. Ensure all circuit breakers on the PDU are in the OFF position.
2. Connect the PDU's L5-20 input plug to a dedicated 1-Phase, 110-125V, 20A power circuit.
3. Verify the power source is properly grounded.

4.3 Connecting Equipment

1. With the PDU still powered off (breakers OFF), connect your IT equipment power cords to the 5-20R outlets on the PDU.
2. Distribute the load evenly across the PDU's outlets and circuit breaker groups to prevent overloading any single breaker.

4.4 Network Connection

For remote monitoring and management, connect an Ethernet cable from your network switch to one of the Ethernet ports on the PDU's control panel. Refer to the PDU's network configuration guide for initial setup of IP addresses and network settings.

5. OPERATING

5.1 Powering On/Off

1. After connecting all equipment, switch the main circuit breakers (CB1, CB2, CB3) on the PDU to the ON position.
2. The graphical local display will illuminate, indicating the PDU is operational.
3. Individual outlets can be switched ON or OFF via the local display interface or remotely through the network interface.

5.2 Local Display Operation

Use the navigation buttons adjacent to the graphical display to browse through menus, view real-time power metrics (voltage, current, power, energy), and configure basic settings. Consult the detailed eConnect PDU user guide for comprehensive local display functionality.

5.3 Remote Monitoring and Management

Access the PDU's web interface via its assigned IP address to perform advanced monitoring, configuration, and control. This includes:

- Real-time power monitoring of the entire PDU and individual outlets.
- Individual outlet switching and sequencing.
- Setting up alerts and notifications for power events.
- User management and security settings.

The PDU also supports serial monitoring for direct console access.

6. MAINTENANCE

6.1 Cleaning

Periodically clean the exterior of the PDU with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure the PDU is powered off and disconnected from the power source before cleaning.

6.2 Firmware Updates

Chatsworth may release firmware updates to improve performance or add new features. These updates

can typically be applied via the USB port or through the network interface. Refer to the Chatsworth support website for the latest firmware and update instructions.

6.3 Environmental Considerations

The PDU is designed to operate in high ambient temperatures up to 149°F (65°C). Ensure proper airflow around the unit to prevent overheating. Regularly check the operating environment to ensure it remains within specified limits.

7. TROUBLESHOOTING

7.1 No Power to Outlets

- Verify the main L5-20 input plug is securely connected to a live power source.
- Check if the PDU's circuit breakers (CB1, CB2, CB3) are in the ON position. If a breaker has tripped, switch it OFF, wait a few seconds, and then switch it back ON. If it trips again, reduce the load on that breaker.
- Confirm that individual outlets are switched ON via the local display or remote interface.

7.2 Network Connectivity Issues

- Ensure the Ethernet cable is securely connected to both the PDU and the network switch.
- Verify network settings (IP address, subnet mask, gateway) on the PDU are correct.
- Check network switch port status and connectivity.

7.3 Breaker Trips Repeatedly

A repeatedly tripping breaker indicates an overload condition. Reduce the total current draw of devices connected to that breaker's group of outlets. If the issue persists with a reduced load, contact technical support.

8. SPECIFICATIONS

Feature	Specification
Model Number	P5-1C0A5
Brand	Chatsworth
Input Plug	L5-20
Input Voltage	1-Phase, 110-125V
Input Current	20A
Outlets	(24) 5-20R Outlets
Breakers	1 x 2P 20A Hydraulic Magnetic Breakers
Surge Protection	No
Monitoring	Ethernet, IP, Serial, USB, Graphical Local Display

Operating Temperature	Up to 149°F (65°C)
Approximate Dimensions (Package)	82 x 10 x 8 inches
UPC	703957370393

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Chatsworth Products customer service or visit their official website. Keep your purchase receipt and product serial number handy when contacting support.