EVERSECU ES-120W-B

EVERSECU 18 Channel DC12V 10 Amp Reset Fuse CCTV DC Distributed Power Box

Model: ES-120W-B

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the EVERSECU 18 Channel DC12V 10 Amp Reset Fuse CCTV DC Distributed Power Box. This device is designed to provide stable and protected DC 12V power to multiple CCTV cameras, DVRs, and other security system components.
It features individual PTC fuses for each output, ensuring that a fault in one channel does not affect the operation of others. The robust metal housing provides durability and security.

2. SAFETY INFORMATION

- **Electrical Safety:** Ensure the power supply is disconnected from the main power source before performing any installation, maintenance, or troubleshooting. Only qualified personnel should perform electrical connections.

- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.

- **Environment:** Install the unit in a dry, well-ventilated area, away from direct sunlight, heat sources, and excessive dust or moisture.

- **Grounding:** Proper grounding is essential for safe operation and to prevent electrical shock.

- **Load Capacity:** Do not exceed the total output current capacity of 10 Amps. Each channel has a maximum capacity of 1.1 Amps.

3. PRODUCT OVERVIEW

The EVERSECU power box is designed for efficient and reliable power distribution in CCTV systems. Key components include:

- **Metal Enclosure:** Durable and secure housing with a lock.
- **AC Input:** Standard AC power input (100-240V).
- **DC 12V Outputs:** 18 individual DC 12V outputs for connecting cameras or other devices.

- **PTC Fuses:** Resettable PTC fuses for each output, providing overcurrent and short-circuit protection.
- **LED Indicators:** Individual LED indicators for each output to show power status.
- **Surge Protection:** Built-in high voltage surge protection.
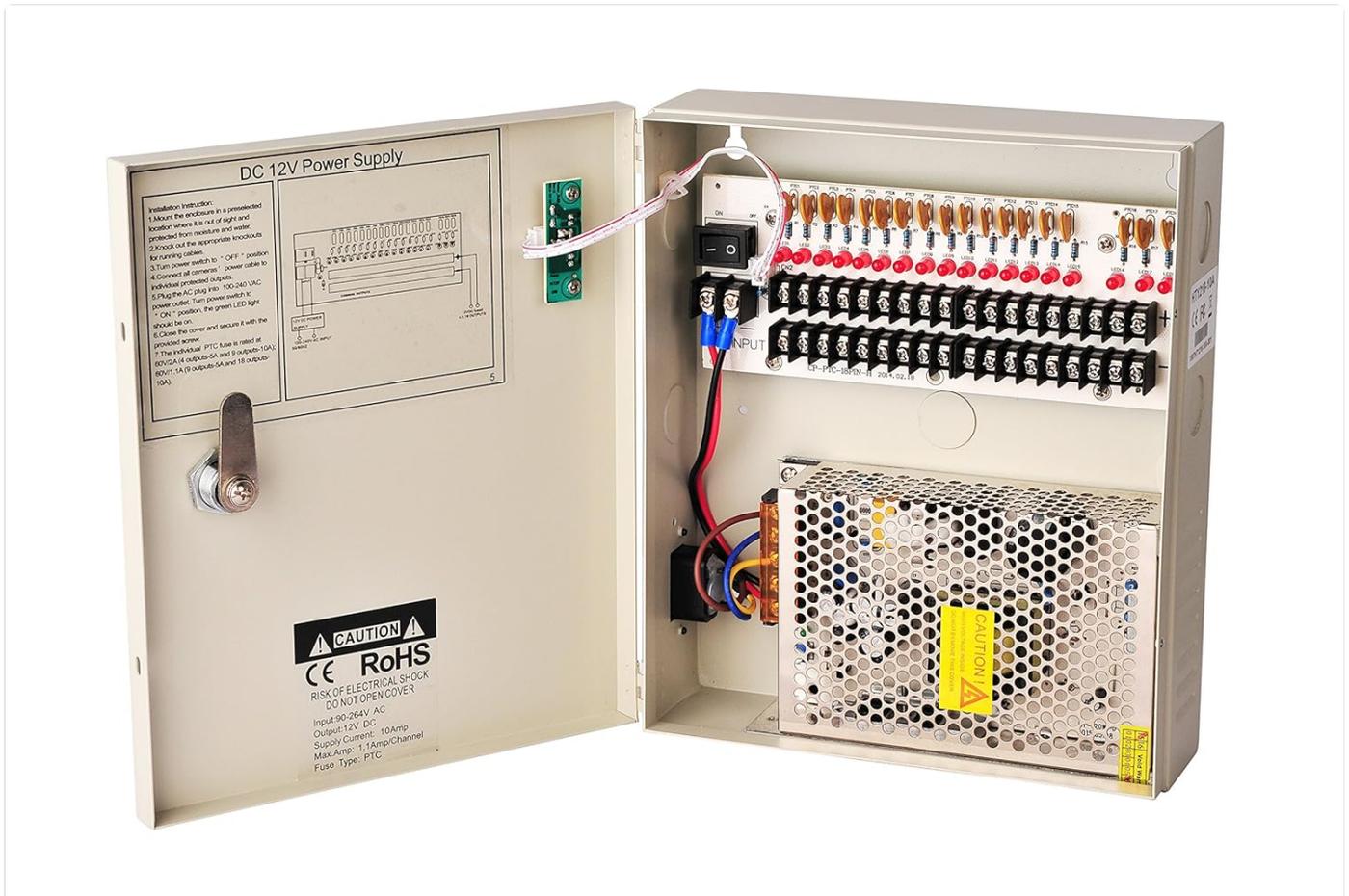

Figure 3.1: Internal view of the EVERSECU 18 Channel Power Box, displaying the power supply unit, terminal blocks for 18 outputs with PTC fuses and LED indicators, and the AC input connection.
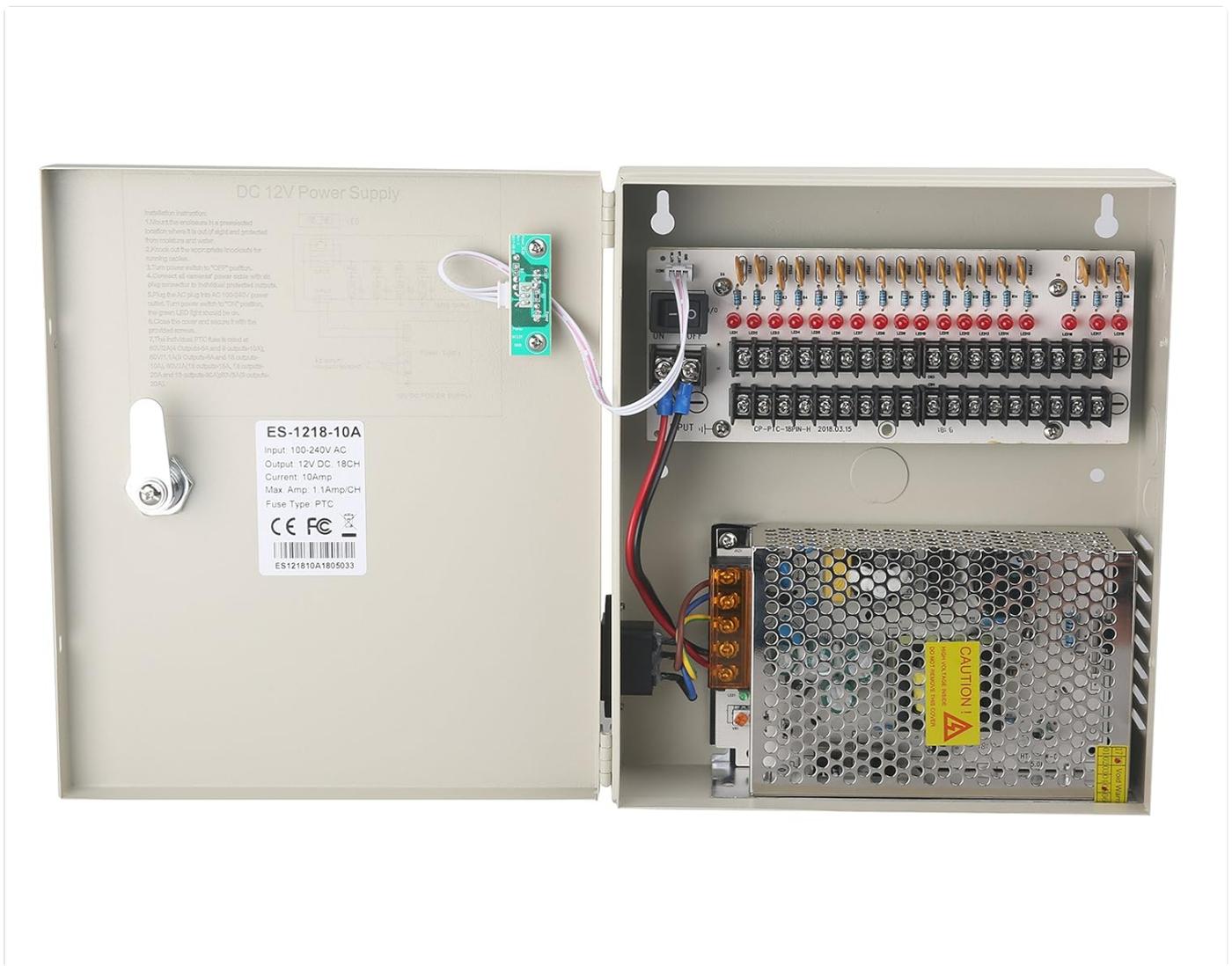
Figure 3.2: Top-down internal view of the EVERSECU 18 Channel Power Box, highlighting the individual PTC fuses and LED indicators for each of the 18 output channels, along with the product label showing model ES-120W-B.

Figure 3.3: Front view of the closed EVERSECU 18 Channel Power Box, showing the secure lock and status indicator lights on the top left.

Figure 3.4: Side view of the closed EVERSECU 18 Channel Power Box, illustrating the AC power input socket and ventilation grilles.

4. SETUP AND INSTALLATION

1. **Mounting:** Choose a suitable, secure location for mounting the power box. Ensure it is within reach of a power outlet and the devices it will power. Use appropriate screws and anchors to securely fasten the unit to a wall or other stable surface.

2. **AC Power Connection:** Connect the provided AC power cord to the power box's AC input socket and then to a grounded electrical outlet. *Do not connect devices to the DC outputs yet.*

3. **DC Output Connections:** Open the power box. For each CCTV camera or device, connect its DC power input wires to the corresponding terminal block on the power box. Ensure correct polarity (positive to positive, negative to negative). Each output channel is clearly labeled.

4. **Secure Wiring:** Double-check all connections to ensure they are tight and secure. Loose connections can cause intermittent power supply or damage to devices.

5. **Close and Lock:** Once all connections are made and verified, close the power box cover and secure it with the provided lock and keys.

6. **Power On:** Plug the AC power cord into the wall outlet. The LED indicators for each active channel should illuminate, indicating proper power distribution.

5. OPERATING INSTRUCTIONS

The EVERSECU power box operates automatically once connected to AC power and with devices attached to its DC outputs.

- **Power Indicator LEDs:** Each output channel has an associated LED indicator. A lit LED signifies that the channel is receiving power and the PTC fuse is operational. If an LED is off, it indicates a power issue on that specific channel (e.g., short circuit, overcurrent, or disconnected device).

- **PTC Fuse Reset:** In case of a short circuit or overcurrent on a channel, the PTC fuse for that channel will trip, cutting power to protect the connected device. Once the fault condition is removed, the PTC fuse will automatically reset after a short period, and power will be restored to the channel.

- **System Monitoring:** Regularly check the LED indicators to ensure all connected devices are receiving power.

6. MAINTENANCE

Minimal maintenance is required for the EVERSECU power box. Adhere to the following guidelines:

- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation openings are free from dust and debris.

- **Connection Check:** Annually, or as needed, inspect all wiring connections inside the box to ensure they remain tight and free from corrosion. *Always disconnect AC power before opening the unit.*

- **Environmental Check:** Ensure the installation environment remains suitable (dry, well-ventilated, stable temperature).

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to any device / No LEDs lit	No AC input power; Main power supply fault.	Check AC power cord connection and wall outlet. Verify the main power supply unit inside the box is functioning.
One channel has no power / LED off	Short circuit or overcurrent on that channel; Loose connection; Faulty device.	Disconnect the device from the affected channel. Check for short circuits in the wiring. Reconnect the device. If the LED remains off, the device may be faulty or drawing too much current. The PTC fuse will reset automatically once the fault is cleared.
Devices flickering or unstable power	Total current draw exceeds 10A; Loose connections; Voltage drop over long cables.	Reduce the number of connected devices or use a higher amperage power supply. Check all wiring connections. Use thicker gauge cables for longer runs to minimize voltage drop.

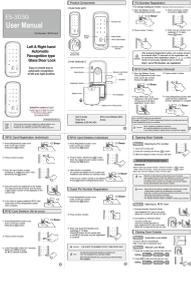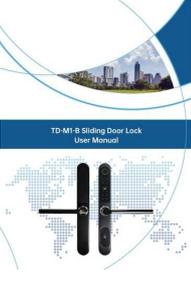| Problem	Possible Cause	Solution
Unit is hot to the touch	Insufficient ventilation; Overload.	Ensure adequate airflow around the unit. Check if the total current draw exceeds 10A. Relocate if necessary to a cooler, better-ventilated area.

8. SPECIFICATIONS

Feature	Detail
Input Voltage	AC 100-240V
Input Voltage Frequency	50/60Hz
Output Voltage	DC 12V +/-5%
Total Output Current	10 Amp
Total Outputs	18 Channels
Max. Current per Channel	1.1 Amp
Fuse Type	PTC (Resettable)
Protection Features	General protection (independent PTC fuse per output), Circuit short protection, High voltage protection, Over Current protection.
Material	Metal Housing
Product Dimensions	9.84 x 8.46 x 3.7 inches
Net Weight	3.77 Pounds (approx. 2.3 Kg)
Model Number	ES-120W-B

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official EVERSECU website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

EVERSECU Official Store: Visit the EVERSECU Store on Amazon

	Narbutas CHOICE Lockers: Technical Information and Specifications Comprehensive technical information, specifications, and assembly details for Narbutas CHOICE lockers, including various types, materials, dimensions, and lock configurations.
	McGrathLocks MLA210 Digital Lock User Manual and Specifications Comprehensive guide to the McGrathLocks MLA210 Digital Lock, covering its features, specifications, installation, and troubleshooting. This 5-in-1 smart lock offers access via Bluetooth App, PIN code, RFID card, fingerprint, and a mechanical key.
	EPIC SYSTEMS ES-303G Automatic Recognition Glass Door Lock User Manual Comprehensive user manual for the EPIC SYSTEMS ES-303G smart door lock, covering installation, PIN and RFID card registration, operation modes, security features, alarm functions, and technical specifications.
	TD-M1-B Smart Sliding Door Lock User Manual: Features, Specs, and Operation Guide User manual for the TD-M1-B smart sliding door lock. Covers product introduction, dimensions, technical specifications, operation, and detailed usage instructions for unlocking methods, app integration with Tuya, and more.
	Onn 6-Device Universal Remote Product Guide A product guide for the Onn 6-Device Universal Remote, covering setup, programming, features like volume and channel lock, code identification, troubleshooting, and FCC information.
	RT Systems Programming Software User Guide for Baofeng Radios A comprehensive user guide for RT Systems programming software, detailing settings and configurations for Baofeng radios, including AutoLock, Beep, Channel Display Modes, Alarm Modes, and more.