

CHANZON 2ABL024F

CHANZON 12V 2A 24W AC/DC Power Supply

Model: 2ABL024F

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your CHANZON 12V 2A 24W AC/DC Power Supply. This adapter is designed to convert AC input (100-240V, 50/60Hz) to a stable DC 12V 2A output, suitable for a wide range of electronic devices. It features a self-adapting barrel jack size of 5.5mm x 2.1mm (also applicable for 2.5mm) with a positive (+) center.

Key features include:

- **Universal Input:** 100-240V AC, 50/60Hz for worldwide compatibility.
- **Stable Output:** DC 12V, 2 Amp, 24 Watt maximum.
- **Adaptive Connector:** 5.5mm x 2.1mm (compatible with 2.5mm) barrel jack with center positive polarity.
- **Safety Certifications:** UL-Listed, FCC, CE, GS, TÜV, PSE, CCC, EAC, BSMI, ensuring safety and reliability.
- **High Efficiency:** Level VI energy efficiency for reduced power consumption.
- **Intelligent Output Adjustment:** Automatically detects and supplies current from 50mA to 2A.
- **Safety Protections:** Automatic overload cut-off, short circuit protection, automatic thermal cut-off, and over-voltage cut-off.



Image: CHANZON 12V 2A 24W AC/DC Power Supply highlighting Level VI energy efficiency.

2. PRODUCT OVERVIEW



Image: Front view of the CHANZON 12V 2A 24W AC/DC Power Supply with its attached DC output cable.

Your browser does not support the video tag.

Video: An official video from CHANZON demonstrating the UL Listed 12V 2A 24W AC DC Switching Power Supply, showcasing its features and design.

3. SETUP INSTRUCTIONS

Follow these steps to set up your power supply:

1. **Verify Device Compatibility:** Ensure your electronic device requires a 12V DC input and its current draw does not exceed 2 Amps (24 Watts). Check the device's power input specifications. The power supply's barrel jack is 5.5mm x 2.1mm, also compatible with 2.5mm center positive inputs.
2. **Connect to Device:** Insert the DC output plug of the power supply into the corresponding power input port on your electronic device. Ensure a secure connection.
3. **Connect to Power Outlet:** Plug the AC input prongs of the power supply into a standard 100-240V AC wall outlet. The power supply is designed with a horizontal plug to avoid blocking adjacent outlets.

4. **Power On:** Once connected, your device should receive power. If your device has a power switch, turn it on.



Image: The CHANZON power supply demonstrating its horizontal plug design, which prevents it from obstructing other outlets.

4. OPERATING INSTRUCTIONS

The CHANZON 12V 2A 24W AC/DC Power Supply operates automatically once connected. It provides a stable 12V DC output and intelligently adjusts the current (up to 2A) based on the connected device's requirements. No manual adjustments are needed.

This power supply is suitable for various 12V electronics, including:

- CCTV Cameras
- GPS devices
- Bluetooth speakers
- LED strip lights and module lights
- Keyboards
- Webcams

- Routers and ADSL modems
- Audio amplifiers
- HUBs
- Arduino projects
- Battery chargers (compatible types)
- Case fans
- Cable modems

Is this ac adapter compatible with your device ?

Condition 1

You have a power adapter for reference.



▼ Get following specs from adapter label.

1. The output voltage should be **DC 12V**. OUTPUT: 12V
2. The output current should not exceed **2.0 Amp**.
(1.5A, 1A, 0.5A, are compatible)
3. The polarity of the DC plug should be **center positive**.
4. The size of DC plug should be **5.5mm x 2.1mm**.
Or 5.5mm x 2.5mm
5. **6Ft (1.8m)** power cable length is enough for your indoor usage.

Condition 2

You don't have a power adapter for reference.



▼ Get following specs from manual or supplier.

1. The input voltage should be **DC 12V**.
2. The maximum power of your device should not exceed **24W**.
(not exceed 2.0 Amp)
3. Internal tip diameter should be **2.5 or 2.1** and positive, hole diameter should be **5.5mm**.

both 2.5mm and 2.1 mm
Center Positive 5.5 mm

4. **6Ft (1.8m)** power cable length is enough for your indoor usage.

Image: A visual representation of various devices compatible with the CHANZON 12V 2A 24W power supply, including CCTV cameras, LED lights, routers, and more.

5. MAINTENANCE

To ensure the longevity and optimal performance of your power supply, follow these maintenance guidelines:

- **Cleaning:** Disconnect the power supply from the wall outlet and the device before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Storage:** Store the power supply in a cool, dry place away from direct sunlight and extreme temperatures

when not in use.

- **Cable Care:** Avoid bending or crimping the power cord excessively. Do not place heavy objects on the cord.
- **Environment:** This power supply is designed for indoor use only and is non-waterproof. Avoid exposure to moisture or high humidity.

6. TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device not powering on	Incorrect voltage/amperage, loose connection, faulty outlet, device issue.	Verify device requirements match power supply specifications. Ensure all connections are secure. Test the outlet with another device. Check your device for internal issues.
Power supply feels hot	Normal operation, excessive load, poor ventilation.	A slight warmth is normal. Ensure the connected device does not exceed 2A. Provide adequate ventilation around the power supply. If it's excessively hot, disconnect immediately and contact support.
Intermittent power to device	Loose connection, damaged cable.	Check all connections for tightness. Inspect the cable for any visible damage. Replace if damaged.

7. SPECIFICATIONS

Attention !

Self-Adapting Dc Plug, Automatically Adjusted to Both 2.1mm and 2.5mm Power Inlet Perfectly



Image: Detailed view of the power supply, including its physical dimensions and the specifications of the DC barrel connector (5.5mm outer, 2.1mm/2.5mm inner diameter, center positive).

Feature	Detail
Brand	CHANZON
Model Number	2ABL024F 12Vdc 2Amp Regulated I.T.E PSU
Input Voltage	100-240V AC, 50/60Hz
Output Voltage	12V DC
Output Current	2 Amps (Max)
Wattage	24 Watts (Max)
DC Connector Type	Barrel Connector, 5.5mm x 2.1mm (compatible with 2.5mm)
Polarity	Center Positive (+)
Cable Length	6 Ft (1.8m)
Material	ABS+PC (Flame-retarded Plastic)

Feature	Detail
Item Weight	0.36 Pounds (approx. 164g)
Safety Certifications	UL-Listed, FCC, CE, GS, TÜV, PSE, CCC, EAC, BSMI, RoHS
Special Features	Automatic overload cut-off, Short Circuit Protection, Automatic thermal cut-off, Over Voltage cut-off
Usage Environment	Indoor Use Only (Non-waterproof)



- UL FCC TUV PSE Safety Certificates
- No EMI (Electromagnetic Interference)
- Over Current Protection
- Short Circuit Protection
- Over Voltage Protection
- Low Fever & No Noise
- Exceed 100,000 ours Lifespan



Level VI Energy Efficiency (Save 10%-20% Electricity Charge than Level V)

Image: Display of various safety certifications including UL, FCC, CE, and others, ensuring product reliability and compliance.

8. WARRANTY INFORMATION

This CHANZON power supply comes with a **2-Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation.

9. CUSTOMER SUPPORT

For any questions, technical assistance, or warranty inquiries regarding your CHANZON 12V 2A 24W AC/DC Power Supply, please contact CHANZON customer support through the retailer's platform where you purchased the product. Provide your product model number (2ABL024F) and details of your issue for efficient service.



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