QWORK QS31910

QWORK 3V-12V 5A 60W Universal Power Supply Instruction Manual

Model: QS31910 | Brand: QWORK

1. Introduction

The QWORK Universal Power Supply (Model QS31910) is an adjustable AC to DC converter designed to provide stable power to a variety of small electronic devices. Featuring a broad adjustable voltage range from 3V to 12V, a maximum output current of 5A, and a maximum power of 60W, this adapter includes an LED display for real-time voltage monitoring and a switch knob for precise adjustments. It is compatible with both 5.5x2.5mm and 5.5x2.1mm plugs, supporting positive center or tip polarity.

2. Safety Instructions

- **INDOOR USE ONLY:** This device is intended for indoor use in dry locations. Do not expose to rain or moisture.
- **RISK OF ELECTRIC SHOCK. DO NOT OPEN:** Do not attempt to open or modify the power supply unit. There are no user-serviceable parts inside.
- Ensure proper ventilation around the power supply during operation to prevent overheating.
- Keep the power supply away from water, heat sources, and flammable materials.
- Always disconnect the power supply from the AC outlet when not in use or before cleaning.
- Do not use if the power cord or the unit itself is damaged.
- This power supply is equipped with advanced protection against over voltage, over current, and over temperature. However, always ensure the connected device's voltage and current requirements are within the adapter's specifications.

3. Package Contents

Please verify that all items are present in your package:

- 1 x QWORK Universal Power Supply (Model QS31910)

- 1 x AC Power Cord

4. Product Features

- **Versatile Adjustable Voltage:** Output voltage adjustable from DC 3V to 12V, with a maximum current of 5A (5000mA) and power of 60W.
- **Real-Time Voltage Monitoring:** Integrated LED display shows the current output voltage, allowing for precise adjustments.
- **Universal Plug Compatibility:** Supplied with connectors compatible with both 5.5x2.5mm and 5.5x2.1mm DC barrel plugs. Supports positive center/tip polarity.
- **Enhanced Safety Features:** Built-in protection against over voltage, over current, and over temperature safeguards both the adapter and connected devices.
- **Global Voltage Compatibility:** Wide input voltage range of AC 100V-240V 50/60Hz for international use.

5. Setup

1. **Connect AC Power Cord:** Insert the AC power cord into the input port of the QWORK power supply.
2. **Set Desired Voltage:** Before connecting to your device, rotate the voltage adjustment knob on the power supply to select the required output voltage (between 3V and 12V). Observe the LED display to confirm the voltage setting.
3. **Connect to Device:** Connect the DC output barrel connector of the power supply to your electronic device. Ensure the plug size (5.5x2.5mm or 5.5x2.1mm) and polarity (positive center/tip) match your device's requirements.
4. **Plug into Wall Outlet:** Insert the AC power cord into a standard AC 100V-240V wall outlet.



This image shows the power supply unit connected to both its AC input cable and DC output cable, illustrating the complete setup.

6. Operating Instructions

1. **Power On:** Once connected as per the setup instructions, the LED display will illuminate, showing the current output voltage.
2. **Adjust Voltage:** To change the output voltage, gently turn the rotary knob labeled 'POWER CONTROL' or 'VOLTAGE'. The LED display will update in real-time to reflect the new voltage setting.
3. **Monitor Operation:** Continuously monitor the LED display to ensure the desired voltage is maintained during operation.
4. **Power Off:** To turn off the power supply, unplug it from the AC wall outlet.



This image displays the top view of the QWORK universal power supply, highlighting the digital LED display for real-time voltage monitoring and the rotary knob for adjusting the output voltage.



A clear view of the power supply unit, emphasizing the adjustable voltage knob and the 'AC/DC ADAPTER' label, along with safety warnings.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the power supply. Do not use liquid cleaners or aerosols.
- **Storage:** Store the power supply in a cool, dry place when not in use. Avoid extreme temperatures and humidity.
- **Inspection:** Periodically inspect the power cord and the unit for any signs of damage. If damage is found, discontinue use immediately.
- Do not attempt to repair or disassemble the unit. Refer to qualified service personnel if maintenance is required beyond basic cleaning.

8. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power/LED display off	Power cord not properly connected; AC outlet not functioning; Unit malfunction.	Ensure AC power cord is securely plugged into both the unit and a working wall outlet. Test the outlet with another device. If problem persists, contact support.
Incorrect voltage displayed	Voltage knob set incorrectly.	Rotate the voltage adjustment knob to the desired voltage.
Device not powering on	Incorrect voltage setting; Incompatible plug size/polarity; Device requires more current than supplied; Device malfunction.	Verify the voltage setting matches your device's requirements. Check that the DC plug (5.5x2.5mm or 5.5x2.1mm) and polarity (positive center/tip) are correct for your device. Ensure your device's current draw does not exceed 5A. Test your device with its original power supply if available.
Unit feels hot	Insufficient ventilation; Overload.	Ensure the unit has adequate airflow around it. Reduce the load on the power supply if it's powering multiple devices or a high-power device. The unit has over-temperature protection and will shut down if it overheats.

9. Specifications

- **Model:** QS31910
- **Input Voltage:** AC 100V-240V, 50/60Hz
- **Output Voltage:** DC 3V-12V (Adjustable)
- **Output Current:** 5A Max
- **Output Power:** 60W Max
- **Connector Type:** Barrel Connector (Compatible with 5.5x2.5mm & 5.5x2.1mm)
- **Polarity:** Positive Center / Tip
- **Material:** Metal
- **Color:** Black
- **Dimensions (approx.):** 133mm x 50mm x 32mm (5-1/4" x 2" x 1-1/4")
- **Item Weight:** 1.12 pounds



This image provides detailed measurements of the power supply unit, including its length, width, height, and cable lengths, for accurate sizing and placement.



This image provides both the top view, showing the LED display and voltage knob, and the bottom view, detailing the input/output specifications and regulatory marks.

10. Warranty and Support

For warranty information or technical support, please contact the manufacturer, QWORK, or your retailer directly. Keep your purchase receipt for warranty claims.

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