

## rolls PB23

# rolls PB23 Phantom Power Adapter User Manual

Model: PB23 | Brand: rolls

## 1. INTRODUCTION

The rolls PB23 Phantom Power Adapter is designed to provide 48VDC phantom power to condenser microphones. Its advanced 100kHz switching power supply ensures a clean, noise-free audio signal. Equipped with output pull-down resistors, the PB23 is compatible with a wide range of mixers, making it an essential tool for professional audio setups.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- Dedicated PB23 Phantom Power Adapter for single microphone use.
- Provides stable 48VDC phantom power.
- Utilizes a 100kHz switching regulator for consistent voltage performance and minimal audio noise.
- Features output pull-down resistors for broad mixer compatibility.
- Compact and durable aluminum construction.

### 2.2 Components and Controls



*Image: The rolls PB23 Phantom Power Adapter. The top panel clearly labels the "INPUT" and "OUTPUT" XLR ports, along with a "POWER" indicator. The model number "PB23" and brand "ROLLS" are prominently displayed. A small green "pwr" LED is visible on the front right side, indicating power status.*

- **INPUT (XLR Female):** Connects to the microphone requiring phantom power.
- **OUTPUT (XLR Male):** Connects to the mixer or audio interface.
- **POWER Indicator (LED):** Illuminates when the unit is receiving power and operating.
- **DC Power Input:** Port for connecting the external power adapter (not visible in this view, typically on the rear or side).

### 3. WHAT'S IN THE BOX

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Upon opening your rolls PB23 package, you should find the following items:

- 1 x rolls PB23 1-Channel Phantom Power Adapter
- 1 x AC Power Adapter (for powering the PB23 unit)

*Note: If any items are missing or damaged, please contact rolls customer support immediately.*

### 4. SETUP GUIDE

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Follow these steps to correctly set up your PB23 Phantom Power Adapter:

1. **Connect Microphone:** Plug your condenser microphone's XLR cable into the **INPUT** (XLR Female) port on the PB23.
2. **Connect to Mixer/Interface:** Connect an XLR cable from the **OUTPUT** (XLR Male) port of the PB23 to

an available XLR input on your mixer, audio interface, or preamplifier.

- 3. **Connect Power:** Plug the included AC power adapter into the DC power input jack on the PB23. Then, plug the AC power adapter into a standard electrical outlet.
- 4. **Verify Power:** The "pwr" LED indicator on the PB23 will illuminate green, confirming that the unit is powered on and providing 48V phantom power.
- 5. **Audio Check:** Your microphone is now ready for use. Perform an audio check through your mixer/interface to ensure proper signal flow.

*Important: Always make connections before applying power to avoid potential damage to your equipment.*

## 5. OPERATING INSTRUCTIONS

The rolls PB23 is designed for simple, plug-and-play operation. Once connected as described in the Setup Guide, it automatically provides the necessary 48V phantom power to your condenser microphone.

- The unit operates continuously when powered. There is no on/off switch on the PB23 itself; power is controlled by connecting or disconnecting the AC adapter from the wall outlet.
- Ensure your mixer's input gain is set appropriately for the microphone being used.
- The PB23 is designed to power a single microphone. Do not attempt to connect multiple microphones to one PB23 unit using Y-cables or similar configurations.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your rolls PB23 Phantom Power Adapter, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the exterior of the unit. Avoid using liquid cleaners, solvents, or abrasive materials, as these can damage the finish or internal components.
- **Storage:** When not in use for extended periods, disconnect the power adapter and store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the unit with care. Avoid dropping it or subjecting it to strong impacts, which can damage internal circuitry.
- **Ventilation:** Ensure the unit has adequate ventilation and is not covered, to prevent overheating.

## 7. TROUBLESHOOTING

If you encounter issues with your PB23, refer to the following table for common problems and their solutions:

Problem	Possible Cause	Solution
No power indicator light (pwr LED off)	Power adapter not connected or faulty; outlet not active.	Ensure power adapter is securely connected to the PB23 and a working electrical outlet. Test the outlet with another device.

Problem	Possible Cause	Solution
No sound from microphone	Incorrect connections; faulty microphone or cables; mixer input issues.	Verify all XLR cables are correctly connected (Mic to PB23 Input, PB23 Output to Mixer Input). Test microphone and cables with another setup if possible. Check mixer input settings.
Humming or buzzing noise	Ground loop; faulty cable; interference.	Ensure all equipment is properly grounded. Try different XLR cables. Move the PB23 away from other electronic devices that might cause interference.
Weak or distorted signal	Microphone not receiving full phantom power; faulty microphone.	Confirm the pwr LED is on. Test with a different condenser microphone if available to rule out microphone issues.

## 8. SPECIFICATIONS

Attribute	Value
Model Number	PB23
Phantom Power Output	48VDC
Switching Frequency	100kHz
Connector Type	3 Pin XLR (Input/Output)
Product Dimensions	3 x 1.25 x 5 inches
Item Weight	13.8 ounces (approx. 0.86 lbs)
Material	Aluminum
Color	Black
Manufacturer	rolls

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

rolls products are designed for reliability and performance. This product is covered by a limited manufacturer's warranty against defects in materials and workmanship. The specific duration and terms of the warranty may vary by region and purchase date. Please retain your proof of purchase for warranty claims.







### 9.2 Customer Support

For technical assistance, troubleshooting, or warranty service, please contact rolls customer support. You can typically find contact information on the official rolls website ([www.rolls.com](http://www.rolls.com)) or through your authorized dealer.

When contacting support, please be prepared to provide your product model (PB23), serial number (if applicable), and a detailed description of the issue.

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Related Documents - PB23

	<p><a href="#">Rolls PM52 Headphone Tap: Connect Headphones to Speaker Lines</a></p> <p>The Rolls PM52 Headphone Tap is a passive audio accessory that connects headphones to a speaker line, allowing users to monitor audio levels directly from a speaker output. It features a mono/stereo switch, a power amp loop for cascading, and a volume control for headphone output. This guide covers its features, specifications, warranty, and important safety warnings regarding hearing damage.</p>
	<p><a href="#">Rolls PM60 Personal Monitor Mic Preamp - Specifications and Connection Guide</a></p> <p>Detailed specifications and connection guide for the Rolls PM60 Personal Monitor Mic Preamp, designed for studio, live, and broadcast use. Learn about its features, inputs, outputs, and how to connect it.</p>
	<p><a href="#">Rolls HR70 Digital FM Transmitter: Quick Start Operation Guide</a></p> <p>A comprehensive guide to the Rolls HR70 Digital FM Transmitter, detailing its features, specifications, front and rear panel controls, connection, and operation for optimal FM broadcasting.</p>
	<p><a href="#">Rolls CL151 GLC Compressor/Limiter/Gate: Quick Start Guide</a></p> <p>Quick start guide for the Rolls CL151 GLC Gate Compressor Limiter, detailing its features, front/rear panel controls, specifications, and connection/operation instructions.</p>
	<p><a href="#">Rolls PM61 Personal Monitor EQ: Connection Guide and Specifications</a></p> <p>Detailed information on the Rolls PM61 Personal Monitor EQ, including what's in the box, technical specifications, and a guide to its connections and controls for studio, live, and broadcast use.</p>
	<p><a href="#">Rolls RPQ160b Parametric Equalizer: Quick Start Operation Guide</a></p> <p>Comprehensive guide to the Rolls RPQ160b Parametric Equalizer, detailing its specifications, controls, operation, and diverse applications for professional audio environments.</p>