

ABB 11RT 2kVA 4NWP100201R0001

ABB PowerValue 11RT 2kVA Uninterruptible Power Supply (UPS) User Manual

Model: 4NWP100201R0001

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, maintenance, and troubleshooting of your ABB PowerValue 11RT 2kVA Uninterruptible Power Supply (UPS). Please read this manual thoroughly before installing or operating the unit to ensure proper functionality and to prevent damage to the equipment or injury to personnel. Keep this manual for future reference.

2. SAFETY INFORMATION

Observe the following safety precautions during all phases of UPS installation, operation, and maintenance. Failure to comply with these warnings may result in electric shock, fire, or serious injury.

- **Electrical Hazard:** The UPS contains internal batteries and can supply hazardous voltage even when disconnected from the AC mains.
- **Qualified Personnel:** Only qualified service personnel should perform installation, maintenance, or repair procedures.
- **Grounding:** Ensure the UPS is properly grounded to prevent electric shock.
- **Environment:** Do not operate the UPS in environments with excessive dust, humidity, or extreme temperatures.
- **Battery Safety:** Batteries can present a risk of electrical shock and high short-circuit current. Observe proper precautions when working with batteries.

3. PRODUCT OVERVIEW

The ABB PowerValue 11RT 2kVA UPS is designed to provide reliable, high-quality power protection for critical loads. It features a compact design suitable for rack-mount or tower configurations, ensuring continuous power during outages and protecting against power fluctuations.



This image displays the front of the ABB PowerValue 11RT UPS, showing the ventilation grilles, the control panel with a blue LCD screen, and the ABB PowerValue branding. The unit is black and designed for rack-mount or tower configurations.

4. SETUP

4.1 Unpacking and Inspection

1. Carefully unpack the UPS and its accessories from the packaging.
2. Inspect the unit for any signs of shipping damage. If damage is found, do not install and contact your supplier.
3. Retain the packaging materials for future transport or storage.

4.2 Placement

- Place the UPS in a clean, temperature-controlled environment, away from direct sunlight, heat sources, and excessive moisture.
- Ensure adequate airflow around the unit. Maintain at least 10 cm (4 inches) of clearance at the front and rear for ventilation.
- The UPS can be installed in a standard 19-inch rack or used as a tower unit with the provided stands (if applicable).

4.3 Electrical Connections

1. **Input Power:** Connect the UPS input power cord to a properly grounded electrical outlet. Ensure the outlet capacity matches the UPS requirements.
2. **Output Connections:** Connect your critical equipment to the UPS output receptacles. Do not overload the UPS.
3. **Communication Ports:** If desired, connect communication cables (e.g., USB, RS-232, network card) for monitoring and management.

5. OPERATION

5.1 Initial Startup

1. After all connections are secure, press and hold the power button on the front panel for a few seconds until the UPS powers on.
2. The LCD display will illuminate and show the startup sequence.
3. Allow the UPS to perform its self-test. Once complete, the display will show normal operating status.

5.2 Normal Operation

In normal operation, the UPS provides conditioned power to connected equipment and keeps its batteries

charged. The LCD display provides real-time information on input/output voltage, load level, battery status, and operational mode.

5.3 Shutdown Procedure

1. Safely shut down all connected equipment.
2. Press and hold the power button on the front panel until the UPS initiates its shutdown sequence.
3. The UPS will power off, and the display will turn off.

6. MAINTENANCE

6.1 Battery Care

- The UPS batteries are designed for a specific lifespan. Regular self-tests help monitor battery health.
- Replace batteries when indicated by the UPS or after their recommended service life. Battery replacement should only be performed by qualified personnel.

6.2 Cleaning

- Ensure the UPS is powered off and disconnected from the AC mains before cleaning.
- Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid or aerosol cleaners.
- Keep ventilation openings clear of dust and debris.

7. TROUBLESHOOTING

This section provides solutions to common issues you may encounter with your UPS. For problems not listed here, contact technical support.

Problem	Possible Cause	Solution
UPS does not turn on	No AC input power; Battery deeply discharged	Check power cord connection and wall outlet; Allow UPS to charge for several hours.
UPS beeps continuously	Overload condition; On battery power	Reduce connected load; Restore AC input power.
Battery runtime is short	Battery nearing end of life; Battery not fully charged	Consider battery replacement; Allow UPS to charge for 24 hours.

8. SPECIFICATIONS

Key technical specifications for the ABB PowerValue 11RT 2kVA UPS (Model 4NWP100201R0001):

- **Brand:** ABB
- **Model:** PowerValue 11RT 2kVA (4NWP100201R0001)
- **Product Dimensions:** 16.77 inches (D) x 17.24 inches (W) x 3.39 inches (H)
- **Item Weight:** 42 pounds (19.1 Kilograms)
- **Color:** Black

- **Voltage:** Refer to the product label on the unit for specific input and output voltage ratings.

9. WARRANTY AND SUPPORT



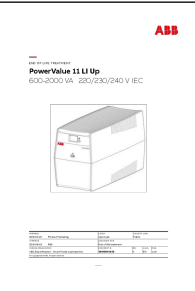

ABB products are manufactured to high standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official ABB website.



For technical assistance, troubleshooting, or service inquiries, please contact ABB customer support through their official channels. When contacting support, please have your product model number (4NWP100201R0001) and serial number available.

ABB Official Website: www.abb.com

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Related Documents - 11RT 2kVA 4NWP100201R0001

	<p>ABB Uninterruptible Power Supply (UPS) Systems Catalog</p> <p>Comprehensive product catalog detailing ABB's range of Uninterruptible Power Supply (UPS) systems, including MegaFlex, TLE Series, DPA (60, 120, 300, 500), PowerValue 1-phase, PCS100 Industrial, and PCS120 Medium Voltage models. Features, technical specifications, and ordering information are provided.</p>
	<p>PowerValue 11 6-10 kVA User Manual</p> <p>This user manual provides comprehensive guidelines for the installation, operation, and maintenance of the ABB PowerValue 11 6-10 kVA Uninterruptible Power Supply (UPS) system. It covers safety instructions, electrical installation, operating modes, LCD operation, troubleshooting, and technical specifications.</p>
	<p>ABB PowerValue 11 LI Up: End of Life Treatment and Recycling Guide</p> <p>ABB's guide for end-of-life treatment and recycling of PowerValue 11 LI Up UPS (600-2000VA). Covers safety, dismantling, WEEE compliance, and material identification for professional recyclers.</p>
	<p>ABB PowerValue 11 T G2 UPS User Manual</p> <p>User manual for the ABB PowerValue 11 T G2 series of Uninterruptible Power Supplies (UPS), covering 6 kVA and 10 kVA models. Provides detailed information on installation, operation, maintenance, troubleshooting, and technical specifications.</p>

 <p>ABB Product Handbook</p>	<p>ABB Product Handbook: UPS Selection and Buying Guide</p> <p>Comprehensive guide to selecting and purchasing ABB UPS systems, covering application needs, UPS specifics, accessories, and model specifications. Includes a UPS selector guide and contact information for UPS Power Solutions.</p>
 <p>ABB Ability™ Smart Sensor Gateway Installation with Huawei E8372</p>	<p>ABB Ability™ Smart Sensor Gateway Installation Guide with Huawei E8372</p> <p>Step-by-step instructions for installing and configuring the ABB Ability™ Smart Sensor Gateway using a Huawei E8372 USB WiFi modem. Learn how to connect, set up network parameters, and verify gateway status.</p>