

NJOY UPOL-OL100EP-CG01B

NJOY Echo Pro 1000 UPS User Manual

Model: UPOL-OL100EP-CG01B

Brand: NJOY

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient use of your NJOY Echo Pro 1000 Uninterruptible Power Supply (UPS). Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of the device.

Product Overview

The NJOY Echo Pro 1000 is a 1000 VA / 800 W double conversion online UPS, designed to provide reliable power protection for critical equipment such as business PCs, office lighting, banking applications, commercial environments, and medical equipment. It features a pure sine wave output, an LCD display for critical information, and communication ports for advanced management.

Key Features

- **Double Conversion Online Technology:** Energy is converted from AC to DC and then back to AC, providing continuous, clean power, isolating connected equipment from utility power problems.
- **Pure Sine Wave Output:** Ensures compatibility with sensitive electronics, offering optimal line clarity, no harmonic distortion, and reduced electrical noise for extended equipment lifespan.
- **Software Management:** Remote access and monitoring capabilities via dedicated software, allowing for real-time status updates, automatic shutdown in case of power failure, and scheduled actions.
- **SNMP Card Slot (Optional):** Allows for remote monitoring and management of connected devices over networks, providing real-time notifications for potential issues like performance degradation or battery overheating.
- **LCD Display:** Provides clear display of load capacity, battery charge level, AC mode, and battery mode.
- **Low Noise Level:** Operates at less than 40 dB, comparable to ambient urban noise, making it suitable for office environments.

2. PRODUCT COMPONENTS AND INTERFACE

Front Panel

The front panel features the LCD display and control buttons for easy interaction with the UPS.



Image: Front view of the NJOY Echo Pro 1000 UPS, showing the LCD display and control buttons (ON, OFF, ENTER, ESC).



2x Battery



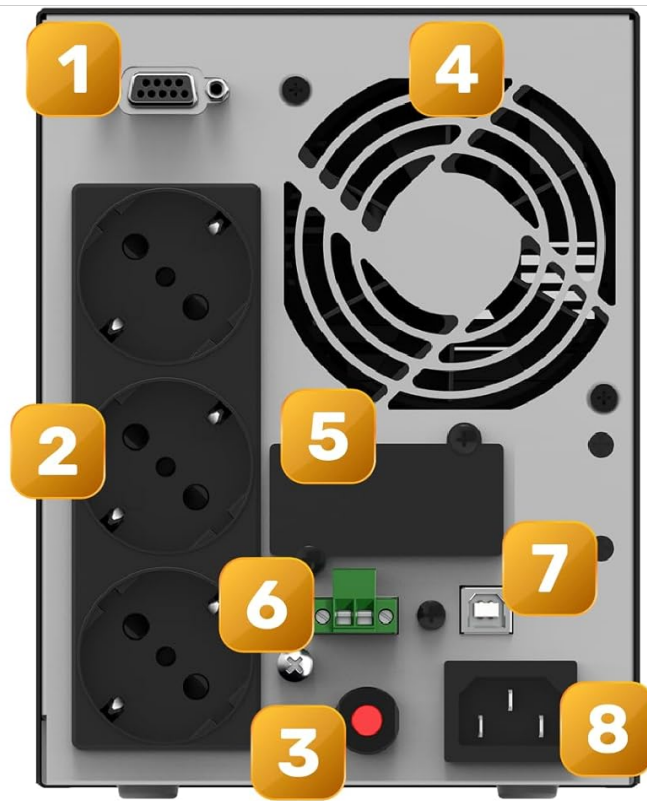
12V@7,0Ah



Image: Front view of the NJOY Echo Pro 1000 UPS with labels indicating "ON-LINE", "1000 VA", "800 W", "2x Battery 12V@7.0Ah", and "USB HID". This highlights the online operation, power rating, battery configuration, and USB Human Interface Device support.

Rear Panel Connections

The rear panel provides all necessary input and output connections for the UPS.



- | | |
|--------------------------------|--------------------------|
| 1 Interfaccia RS232 | 5 Slot SNMP |
| 2 Uscite SCHUKO | 6 EPO |
| 3 INPUT Circuit BREAKER | 7 Interfaccia USB |
| 4 Ventola | 8 AC Input |

Image: Rear panel of the NJOY Echo Pro 1000 UPS, detailing the connection ports. Numbered labels point to: 1. RS232 Interface, 2. SCHUKO Outputs (3 sockets), 3. INPUT Circuit BREAKER, 4. Fan, 5. SNMP Slot, 6. EPO (Emergency Power Off), 7. USB Interface, 8. AC Input.

1. **RS232 Interface:** For serial communication with a computer or network device.
2. **SCHUKO Outputs:** Three output sockets for connecting protected equipment.
3. **INPUT Circuit BREAKER:** Overcurrent protection for the input power.
4. **Fan:** For cooling the internal components of the UPS.
5. **SNMP Slot:** For installing an optional SNMP card for network management.
6. **EPO (Emergency Power Off):** Terminal for remote emergency shutdown.
7. **USB Interface:** For USB communication with a computer, supporting HID.
8. **AC Input:** Main power input connection for the UPS.

3. SETUP

Installation Guidelines

Follow these guidelines for proper installation of your UPS:

- Place the UPS in a well-ventilated area, away from direct sunlight, heat sources, and excessive dust or moisture.
- Ensure the ambient temperature is between 0 – 40 °C and humidity is 0 – 90% (non-condensing).
- Connect the UPS to a grounded power outlet.
- Do not block the fan vents on the rear panel to ensure adequate airflow.

Initial Power-Up

1. Connect the AC input cable to the UPS AC Input port (8) and then to a wall outlet.
2. Connect your critical equipment (e.g., computer, monitor) to the SCHUKO Outputs (2) on the rear panel.
3. Press the "ON" button on the front panel to power on the UPS. The LCD display will illuminate, and the UPS will perform a self-test.
4. Allow the UPS to charge its batteries for at least 4 hours before initial use to ensure full backup capacity.

4. OPERATING INSTRUCTIONS

Basic Operation

Powering On/Off

- **To Power On:** Press the "ON" button on the front panel.
- **To Power Off:** Press the "OFF" button on the front panel.

LCD Display Information

The LCD display provides real-time status information:

- **Load Capacity:** Indicates the percentage of connected load.
- **Battery Charge Level:** Shows the current battery charge.
- **AC Mode:** Indicates when the UPS is operating on utility power.
- **Battery Mode:** Indicates when the UPS is operating on battery power during an outage.
- **Input/Output Voltage and Frequency:** Displays current electrical parameters.

Software Management

The included software allows for advanced monitoring and control of the UPS. Connect the UPS to your computer via the USB or RS232 port to utilize the software.



Image: Screenshot of the UPS management software interface, showing options for monitoring, configuration, and help. The status display indicates AC Utility Power, Input/Output Voltage (227.4V), Frequency (50.0/50.0 Hz), Power Condition (Normal), Remaining Battery Capacity (95%), Battery Status (Charging), and UPS Load (0%).

The software enables:

- Real-time operational status visualization.
- Scheduling of power-on, power-off, and battery tests.
- Complete configuration of UPS settings.

5. MAINTENANCE

Battery Care

The UPS contains two sealed lead-acid batteries (12V-7Ah).

- To maximize battery lifespan, avoid frequent deep discharges.
- Store the UPS with fully charged batteries if not in use for extended periods. Recharge every 3 months.
- Battery replacement should be performed by qualified personnel.

Cleaning

- Disconnect the UPS from the power outlet before cleaning.
- Use a dry, soft cloth to clean the exterior of the UPS.
- Do not use liquid or aerosol cleaners, as they may damage the unit.

6. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
UPS does not turn on	No AC input power; Battery discharged; Circuit breaker tripped.	Check AC power connection; Allow UPS to charge; Reset input circuit breaker (3).
UPS beeps continuously in AC mode	Overload condition.	Reduce the connected load.
Short backup time	Battery not fully charged; Battery nearing end of life.	Allow batteries to charge for 4 hours; Consider battery replacement if the issue persists after charging.
UPS not communicating with computer	Incorrect cable; Software not installed or configured.	Ensure correct USB/RS232 cable is used; Install and configure UPS management software.

7. SPECIFICATIONS

Technical Specifications

Feature	Detail
Power Capacity	1000 VA / 800 W
UPS Type	Online Double Conversion
Nominal Input Voltage	220-240 VAC
Input Voltage Range	80 – 300 VAC
Nominal Frequency	50 Hz ~ 60 Hz
Frequency Range	40 Hz ~ 70 Hz
Transfer Time (AC-DC)	Zero
Transfer Time (Eco Mode)	4 ms
Outputs	3 x Schuko
Battery Type	2 x Sealed Lead-Acid (GP07122L, 12V-7Ah)
Battery Backup Time	25% load: 19 min; 50% load: 6 min; 75% load: 2 min; 100% load: 1 min

Feature	Detail
Communication Ports	HID USB, RS232, EPO, SNMP Slot
Operating Humidity	0 – 90 % (non-condensing)
Operating Temperature	0 – 40 °C
Noise Level	Less than 40 dB
Product Dimensions (L x W x H)	327 x 140 x 190 mm
Product Weight	10.1 kg
Model Number	UPOL-OL100EP-CG01B

Battery Runtime Graph



Running time on battery

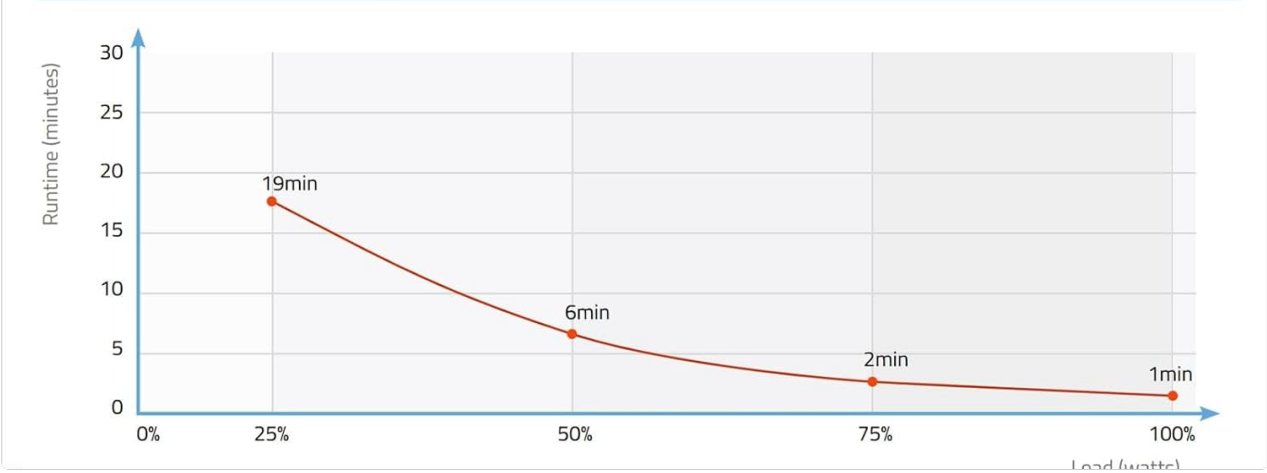


Image: Graph illustrating the battery runtime in minutes against the percentage of load (watts). It shows 19 minutes at 25% load (200W), 6 minutes at 50% load (400W), 2 minutes at 75% load (600W), and 1 minute at 100% load (800W).

8. WARRANTY AND SUPPORT

Warranty Information

NJOY offers a **3-year warranty** for the Echo series UPS units. Batteries are covered by a **1-year warranty**.

This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

Customer Support

For any assistance or support before, during, or after your purchase, please contact our professional customer service team. We are committed to providing prompt and quality service.

You can find contact information on the official NJOY website or through your retailer.

Related Documents - UPOL-OL100EP-CG01B

	Njoy Keen Series UPS User Manual Comprehensive user manual for the Njoy Keen Series Uninterruptible Power Supply (UPS) units, covering installation, operation, safety warnings, and troubleshooting.
	nJoy Keen Series UPS User Manual: Installation, Operation, and Troubleshooting Comprehensive user manual for nJoy Keen Series Uninterruptible Power Supply (UPS) units, covering installation, operation, safety warnings, LED indicators, troubleshooting, and disposal. Includes model numbers UPLI-LI060KE-CG01B through UPLI-LI200KU-CG01B.
	nJoy Token Series UPS User Manual - UPCSBSL660TTOAZ01B, UPCSBSL680TTOAZ01B User manual for the nJoy Token Series UPS models UPCSBSL660TTOAZ01B and UPCSBSL680TTOAZ01B. Learn about installation, operation, safety, troubleshooting, and specifications for these power protection devices.

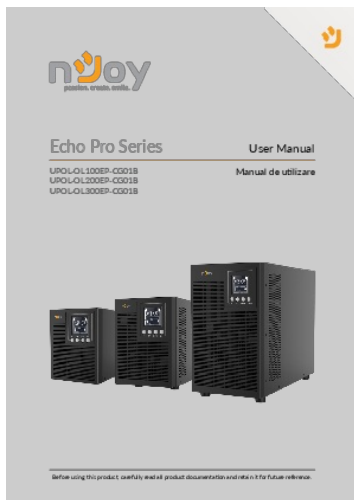


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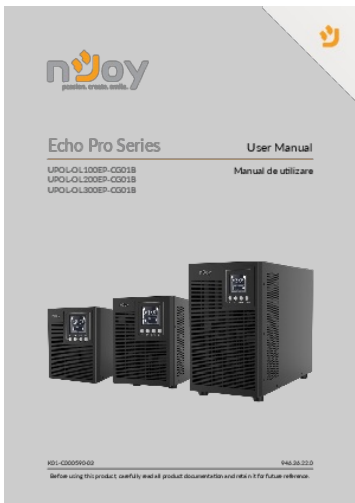
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Echo Pro 1000 Innovation is soundly protected PN: **UPOL-OL100EP-CG01B** EAN: 6422956009465 Specifications Capacity Type Input Nominal Voltage Accepted Voltage Range Nominal frequency Frequency Range Input surge protection Output Nominal Voltage AC Voltage Regulation Batt. Mode Frequency Range Batt... lang:en score:53 filesize: 623.89 K page_count: 2 document date: 2020-01-13



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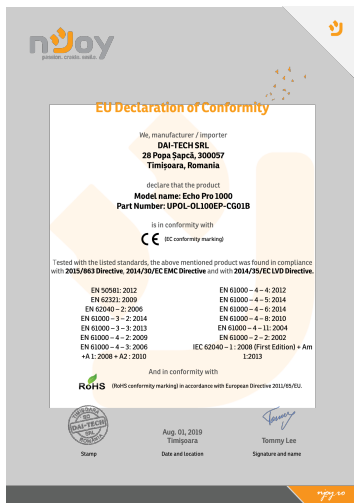


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EU Declaration of Conformity We, manufacturer / importer DAI-TECH SRL 28 Popa apc, 300057 Timioara, Romania declare that the product Model name: Echo Pro 1000 Part Number: **UPOL-OL100EP-CG01B** is in conformity with EC conformity marking Tested with the listed standards, the above mentioned product...

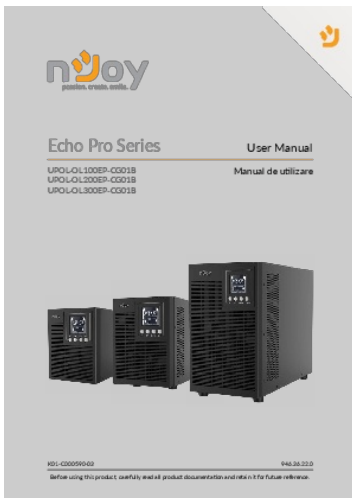
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