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**Eaton EL1600USBIEC**

# Eaton Ellipse ECO 1600 USB IEC Uninterruptible Power Supply User Manual

## 1. INTRODUCTION

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The Eaton Ellipse ECO 1600 USB IEC is an Uninterruptible Power Supply (UPS) designed to provide backup power and surge protection for electronic equipment. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your UPS unit. Please read this manual thoroughly before using the product.



Figure 1: The Eaton Ellipse ECO 1600 USB IEC UPS shown in both vertical tower and horizontal flat configurations. This versatile design allows for flexible placement under a desk or monitor.

## 2. SAFETY INFORMATION

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Observe the following safety precautions to prevent injury and damage to the UPS or connected equipment:

- **Electrical Safety:** Connect the UPS to a grounded AC power outlet. Do not remove the grounding prong.
- **Indoor Use Only:** This UPS is designed for indoor use in a controlled environment. Avoid exposure to

moisture, extreme temperatures, or direct sunlight.

- **Ventilation:** Ensure adequate airflow around the UPS. Do not block ventilation openings.
- **Battery Safety:** The UPS contains a sealed lead-acid battery. Do not open or tamper with the battery. Refer to the maintenance section for battery replacement procedures.
- **Overload Protection:** Do not overload the UPS. The total power consumption of connected equipment must not exceed the UPS's rated capacity (1000W for this model).

### 3. PRODUCT OVERVIEW

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#### 3.1 Front Panel

The front panel features the power button and status indicators.



Figure 2: A close-up view of the front panel of the Eaton Ellipse ECO UPS. It displays the prominent power button, which illuminates green when operational, and an 'OK' indicator light, signifying normal operation.

- **Power Button:** Press to turn the UPS on or off.
- **Status Indicator (Green LED):** Indicates the operational status of the UPS.
- **'OK' Indicator:** Illuminates when the UPS is functioning correctly.

#### 3.2 Rear Panel (IEC Output)

The rear panel provides the input power connection, output receptacles, and communication ports.

- **AC Input:** Connects the UPS to the wall outlet.
- **IEC Output Receptacles:** Provide battery backup and surge protection for connected devices. This model features 8 sockets.
- **USB Port:** For communication with a computer to enable automatic shutdown and monitoring.
- **Data Line Protection (RJ11/RJ45):** Provides surge protection for Ethernet, Internet, and Phone lines.
- **Resettable Circuit Breaker:** Protects against overloads.

### 3.3 Form Factor

The Ellipse ECO series offers flexible installation options:

- **Vertical Tower:** Standard upright placement.
- **Horizontal Flat:** Can be placed under a display.
- **19" Rack Mount (Optional Kit):** Requires an optional 2U kit for rack installation.
- **Wall Mount (Optional Kit):** Requires an optional kit for wall mounting.



Figure 3: The Eaton Ellipse ECO UPS installed within an optional 19-inch rack mount tray. This demonstrates one of the flexible installation options available for the unit.

## 4. SETUP

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### 4.1 Unpacking and Placement

1. Carefully unpack the UPS and inspect for any shipping damage.
2. Place the UPS in a clean, dry, and well-ventilated area, away from heat sources or direct sunlight.
3. Ensure the ambient temperature is within the operating range (0°C to 40°C).

### 4.2 Connecting to AC Power

1. Connect the supplied power cord to the AC input receptacle on the rear of the UPS.

2. Plug the other end of the power cord into a grounded wall outlet.
3. Allow the UPS to charge for at least 8 hours before initial use to ensure full battery capacity.

## 4.3 Connecting Equipment

1. Plug your critical equipment (e.g., computer, monitor, external hard drives) into the IEC output receptacles on the rear of the UPS.
2. Ensure the total load does not exceed the UPS's rated output (1000W).
3. For data line protection, connect your network cable or phone line through the RJ11/RJ45 ports on the UPS.

## 4.4 USB Communication

Connect the supplied USB cable from the UPS's USB port to your computer's USB port. Install the Eaton UPS Companion software (available from the Eaton website) to enable automatic shutdown, monitoring, and EcoControl features.

# 5. OPERATING

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## 5.1 Powering On/Off

- **To Power On:** Press and hold the power button on the front panel for approximately 2 seconds until the green LED illuminates.
- **To Power Off:** Press and hold the power button for approximately 2 seconds until the green LED turns off.

## 5.2 Status Indicators

- **Solid Green LED:** UPS is operating normally, providing power to connected equipment.
- **Flashing Green LED:** UPS is operating on battery power during a power outage.
- **Audible Alarm:** Indicates a power outage or low battery condition.

## 5.3 EcoControl Feature

The EcoControl feature (available on USB models with software installed) automatically controls peripheral devices connected to the UPS. When the main device (e.g., computer) is turned off, the UPS can automatically shut down power to non-essential peripherals, saving energy. Configure this feature using the Eaton UPS Companion software.

# 6. MAINTENANCE

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## 6.1 Battery Self-Test

The UPS performs periodic and automatic battery self-tests to detect potential battery problems before they occur. You can also initiate a manual self-test through the Eaton UPS Companion software.

## 6.2 Battery Replacement

The battery in the Eaton Ellipse ECO UPS is user-replaceable, extending the service life of the unit. Refer to the specific battery replacement instructions provided with your UPS or contact Eaton support for guidance. Always use genuine Eaton replacement batteries to ensure compatibility and safety. The battery cell composition is Sealed Lead Acid.

## 6.3 Cleaning

Clean the exterior of the UPS with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation

openings are free from dust and debris.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
UPS does not turn on	No AC input power; Battery not charged	Check AC power connection; Allow UPS to charge for 8 hours.
UPS beeps continuously	Overload condition; Low battery	Reduce connected load; Allow battery to recharge.
Connected equipment loses power during outage	Battery depleted; UPS overloaded	Ensure battery is fully charged; Reduce connected load.
UPS does not communicate via USB	USB cable not connected; Software not installed	Check USB cable; Install Eaton UPS Companion software.

If the problem persists, contact Eaton technical support.

## 8. SPECIFICATIONS

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Feature	Specification
Model	EL1600USBIEC
Output Wattage	1000 Watts
Voltage	230 Volts
Battery Average Life	11 minutes (typical)
Battery Cell Composition	Sealed Lead Acid
Total USB Ports	1
Material Type	Metal
Form Factor	Rack (with optional kit)
Product Dimensions	31.2 x 8.1 x 30.5 cm; 7.8 kg
Input Voltage	230 Volts (AC)

## 9. WARRANTY AND SUPPORT

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### 9.1 Warranty Information

The Eaton Ellipse ECO 1600 USB IEC UPS comes with a 2-year warranty, which includes the batteries.

Additionally, Eaton offers an unlimited warranty for connected equipment in EU countries, providing peace of mind against damage from power surges while connected to the UPS.

## **9.2 Technical Support**

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Eaton customer support. Refer to the official Eaton website for contact information specific to your region.

## **10. VIDEO RESOURCES**

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No official product videos from the seller were provided in the product data for embedding in this manual.