

CDP R-UPR 508

CDP Chicago Digital Power R-UPR 508 UPS Battery Backup and Surge Protector User Manual

Model: R-UPR 508 | Brand: CDP

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your CDP Chicago Digital Power R-UPR 508 Uninterruptible Power Supply (UPS). The R-UPR 508 is a line-interactive UPS designed to provide battery backup and surge protection for electronic equipment, ensuring continuous operation during power outages and protection against voltage fluctuations.

2. SAFETY INFORMATION

Read all instructions carefully before installation and operation. Keep this manual for future reference.

- Do not open the UPS casing. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Do not install the UPS in direct sunlight, near heat sources, or in environments with excessive dust, moisture, or flammable liquids.
- Ensure the UPS is connected to a grounded AC power outlet.
- Do not connect appliances that draw high current, such as hair dryers or vacuum cleaners, to the UPS outlets.
- In case of fire, use a dry chemical extinguisher. Water can cause electrical shock.

3. PRODUCT OVERVIEW

The CDP R-UPR 508 UPS provides reliable power protection for your devices. Key features include:

- **Line Interactive Design:** Corrects brownouts and high voltages without switching to battery.
- **Battery Backup:** Provides power during outages.
- **Surge Protection:** Protects against power surges and spikes.
- **8 Outlets:** Includes both battery backup/AVR and surge-only outlets.
- **Automatic Voltage Regulation (AVR):** Stabilizes incoming AC power.

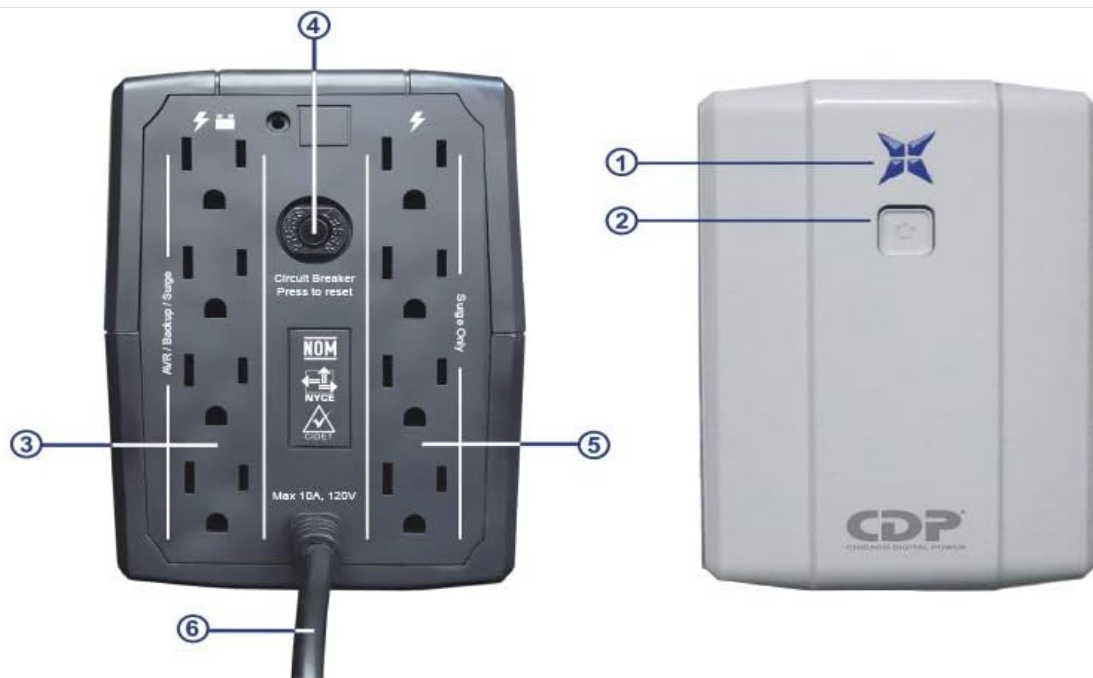
3.1 Front Panel



Figure 1: Front view of the CDP R-UPR 508 UPS. Shows the power button and indicator lights.

The front panel features the power On/Off button and LED indicators for operational status.

3.2 Rear Panel



Descripción del panel

1. Leds indicadores.
2. Botón On/Off y arranque en frío.
3. Respaldo UPS/AVR.
4. Breaker de protección.
5. Receptáculo de supresión de picos.
6. Cable de poder AC.

Panel Description

1. LED indicators
2. Power On/Off button.
3. UPS/AVR outlets.
4. Protection breaker.
5. Surge protection outlets.
6. AC Power cord.

Figure 2: Rear panel of the CDP R-UPR 508 UPS with labeled components.

The rear panel contains all input and output connections. Refer to the image above for component identification:

1. **LED Indicators:** Display operational status.
2. **Power On/Off Button:** Controls the UPS power.
3. **UPS/AVR Outlets:** Provide battery backup and surge protection.
4. **Protection Breaker:** Resettable circuit breaker.
5. **Surge Protection Outlets:** Provide surge protection only.
6. **AC Power Cord:** Connects the UPS to the wall outlet.

4. SETUP

4.1 Unpacking and Inspection

Carefully unpack the UPS and inspect it for any shipping damage. If any damage is found, do not operate the unit and contact your dealer.

4.2 Battery Connection



Figure 3: Top view of the UPS with the battery compartment open, showing the internal battery.

Before initial use, ensure the internal battery is properly connected. Some models may require the user to connect the battery terminals. Refer to the diagram inside the battery compartment if applicable. Close the battery compartment securely after connection.

4.3 Placement and Initial Charging

- Place the UPS in a clean, dry, and well-ventilated area.
- Connect the UPS power cord to a standard grounded wall outlet.
- Allow the UPS to charge for at least 8 hours before connecting any equipment to ensure maximum battery runtime.

4.4 Connecting Equipment

Connect your computer, monitor, router, and other critical electronic devices to the UPS/AVR outlets (battery backup and surge protection). Connect non-critical devices that only require surge protection to the Surge Protection Outlets.



Figure 4: The UPS protects equipment from various power issues including blackouts, sags, spikes, under-voltages, and over-voltages.

5. OPERATION

5.1 Turning On the UPS

Press and hold the Power On/Off button for approximately 2 seconds until you hear a beep and the LED indicators illuminate.

5.2 Turning Off the UPS

Press and hold the Power On/Off button for approximately 2 seconds until you hear a beep and the LED indicators turn off.

5.3 Cold Start Function

The UPS can be started without AC utility power. With the UPS off and disconnected from AC power, press and hold the Power On/Off button for approximately 2 seconds. The UPS will turn on and provide power from its battery.

5.4 Understanding LED Indicators

The LED indicators on the front panel provide information about the UPS status:

- **Solid Green LED:** Normal operation, AC power is present, and battery is charging or fully charged.
- **Flashing Green LED & Beeping:** UPS is operating on battery power. The beeping frequency increases as battery power depletes.
- **Solid Red LED:** Fault condition or overload. Refer to the Troubleshooting section.

5.5 Battery Backup Runtime

The battery backup runtime varies depending on the load connected to the UPS/AVR outlets. The following table provides estimated backup times:

CDP[®]

CHICAGO DIGITAL POWER

R-UPR 508

 PLÁSTICO ANTIFLAMA

 INDICADOR DE CARGA

 BREAKER DE PROTECCIÓN

 INDICADOR RESERVA DE BATERÍA

 ENCENDIDO AUTOMÁTICO Y ARRANQUE EN FRÍO

 300 JOULES PROTECCIÓN CONTRA TORMENTAS ELÉCTRICAS

 REGULADOR INCORPORADO

 8 TOMAS DE SALIDA 4 CON RESPALDO/REGULADAS Y 4 CON SUPRESIÓN

TABLA DE TIEMPOS DE RESPALDO

BACK TIME TABLE

LAPTOP	PC	ROUTER	POS
26MIN	18MIN	3HRS 30MIN	2HRS 10MIN

*** Pueden variar dependiendo eficiencia del dispositivo que este conectado.

*** It can vary depending on the efficiency of the connected device.

Figure 5: Estimated backup times for Laptop, PC, Router, and POS systems. Actual times may vary.

Estimated Backup Time Table

Device	Estimated Backup Time
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Device	Estimated Backup Time
Laptop	26 minutes
PC	18 minutes
Router	3 hours 30 minutes
POS (Point of Sale)	2 hours 10 minutes

Note: Actual backup times may vary depending on the efficiency and power consumption of the connected devices.

6. MAINTENANCE

6.1 Battery Care

- To maintain optimal battery life, keep the UPS connected to an AC outlet at all times to ensure the battery remains charged.
- If the UPS is stored for an extended period, recharge the battery every three months for at least 8 hours to prevent battery degradation.
- Battery replacement should only be performed by qualified service personnel.

6.2 Cleaning

Disconnect the UPS from the AC power outlet and all connected devices before cleaning. Use a soft, dry cloth to clean the exterior surfaces. Do not use liquid or aerosol cleaners.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your UPS. If the problem persists, contact customer support.

Troubleshooting Guide

Problem	Possible Cause	Solution
UPS does not turn on.	Battery not connected or discharged.	Ensure battery is connected. Charge the UPS for at least 8 hours.
UPS beeps continuously or frequently.	Operating on battery power (power outage). Low battery. Overload.	Save work and shut down devices. Allow UPS to recharge. Reduce the load by disconnecting non-essential devices.
UPS outlets not providing power.	UPS is off. Circuit breaker tripped. Battery discharged.	Turn on the UPS. Press the circuit breaker reset button on the rear panel. Allow UPS to recharge.
UPS is making clicking noises.	Normal operation during voltage regulation (AVR).	This is normal. The UPS is adjusting to incoming voltage fluctuations.

8. SPECIFICATIONS

Feature	Detail
Model	R-UPR 508
Capacity	500 VA / 250 W
Input Voltage	120V AC
Output Voltage	120V AC (Simulated Sine Wave)
Outlets	8 (4 x Battery Backup/AVR, 4 x Surge Protection Only)
Surge Energy Rating	300 Joules
Battery Type	Sealed Lead-Acid, Maintenance-Free
Recharge Time	8 hours to 90% capacity (typical)
Dimensions (L x W x H)	7.68 x 5.39 x 13.98 inches
Operating Temperature	0°C to 40°C (32°F to 104°F)

Note: Specifications are subject to change without notice.

9. WARRANTY AND SUPPORT

CDP products 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 CDP website. For technical support, troubleshooting assistance, or service inquiries, please contact CDP customer service.

Contact Information: Refer to the official CDP website or product packaging for the most current contact details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question