

# CEN-UPS1250

## Uninterruptible Power Supply, 1250W, 120V.

The CEN-UPS1250 is a 1250 Watt, 120 Volt uninterruptible power supply and power conditioner *Engineered by APC®* specifically for Crestron®.

Designed to protect Crestron control systems, media servers, video displays and other devices, the CEN-UPS1250 employs pure sine wave battery

backup to maintain continuous operation of critical components whenever

power is disrupted. Remote monitoring and control through award-winning

Crestron **RoomView®** software, and full Crestron control system

integration, deliver a comprehensive power management and protection

solution that's an integral part of the complete Crestron control network.

### Pure Sine Wave Battery Backup

Any unexpected shutdown due to the sudden loss of power will certainly

disrupt workflow and stop a presentation dead in its tracks, but it can

also cause the loss of precious data and system settings, and can even

damage hard drives and other vulnerable components. The CEN-UPS1250

constantly monitors the incoming power line and instantly transfers power

to battery backup in the event of such a power loss, ensuring the connected components continue to operate unhampered. It may

also be

configured to transfer to battery in the case of an over or under voltage

condition, or if excessive line noise or distortion is detected, ensuring

optimum performance of sensitive video and audio equipment



switching ensures that all the components of a complete system are powered

up and down in proper order, avoiding dangerous transients that can

damage delicate components and trip the main circuit breaker. Components

such as video projectors and media servers that require systematic

shutdown and restart can be managed seamlessly through integration with a

control system.

### Automatic Voltage Regulation

Keeping the voltage within a safe operating range helps prevent equipment

malfunctions and can even improve audio and video performance. Using

automatic voltage regulation, the CEN-UPS1250 can correct for many high

and low voltage fluctuations without having to switch to battery

operation, preserving battery fuel for more serious situations.

### Surge Protection

The CEN-UPS1250 provides thorough protection against

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radio frequency interference that can negatively impact sound and video quality. Each of the four outlet banks provides filtering protection specialized for a specific type of device: DIGITAL, DISPLAY, ANALOG, and HI-CURRENT. Each bank is electrically isolated to prevent any noise present on one bank from reaching the devices connected to any other bank.

### Environmental Monitoring

Using the external probe included, ambient temperature and relative humidity levels can be measured and recorded, and even reported to the control system or central help desk. Using this feature, safe operating limits can be specified for all of the equipment within a room or rack so that whenever the limits are exceeded, the user is notified, climate control is adjusted, and if necessary the equipment can be powered down safely.

### RoomView? and Control System Integration

Monitoring and operation of the CEN-UPS1250 extends beyond its front panel, providing direct communication with Crestron **RoomView Remote Asset** Management Software as well as with Ethernet-enabled Crestron control systems. The CEN-UPS1250 notifies RoomView whenever it switches to battery backup, and warns if the battery is low or overloaded. It also reports

A heavy duty rackmount hardware kit is provided to mount the unit into any EIA standard 4-post 19" equipment rack up to 28" deep. The feet on the bottom of the unit can be unscrewed and removed to save space when the unit is rack-mounted.

### SPECIFICATIONS

#### UPS/Power Conditioner

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Output Power Capacity: 1250 Watts (1440 VA) @120 Volts AC nominal

Efficiency: 90% at full load

Output Voltage Distortion: <5% at full load

Output Frequency: 47 to 63 Hz (sync to line power input)

Waveform Type: Sine wave

Transfer Time: 7mS typical, 10mS maximum during blackout

Power Line Surge Protection: Rated for 4080 Joules

Filtering: Full-time multi-pole noise filtering, 5% IEEE surge let-thru,

zero clamping response time, meets UL 1449 Dataline protection

Voltage Regulation: Performs voltage boost or trim to maintain 120V

nominal output

Maximum Output Current: 12 Amps per outlet, 12 Amps total

#### Power Requirements

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Input Voltage: 92 to 142 Volts AC, 120 Volts nominal

Input Frequency: 47 to 63 Hz

Maximum Input Current: 12 Amps (when fed from 15 Amp circuit)

#### Battery

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Internal Battery: (1) Crestron model [CEN-UPS1250-BTP](#)

Backup Runtime: ~12 minutes @ half load (625W), ~2.7

minutes @ full load

(1250W)

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### Connectors

BANK 1 - DIGITAL DEVICES: (6) NEMA 5-15R female;  
Grounded AC power outlets, switched;

BANK 2 - DISPLAYS: (2) NEMA 5-15R female;  
Grounded AC power outlets, switched;

BANK 3 - ANALOG DEVICES: (2) NEMA 5-15R female;  
Grounded AC power outlets, delayed-switched;  
Delayed turn-on, adjustable 0 to 10 seconds;

BANK 4 - HI-CURRENT DEVICES: (2) NEMA 5-15R female;  
Grounded AC power outlets, delayed-switched;  
Delayed turn-on, adjustable 0 to 10 seconds;

EXTERNAL BATTERY: (1) Connector for optional external battery,  
sold by  
APC [1]

SERVICE PORT: (1) USB Type B female;

TELCO IN: (1) 4-pin RJ11 female;

TELCO OUT: (2) 4-pin RJ11 female;

CABLE IN: (1) F-type coaxial, female;

CABLE OUT: (1) F-type coaxial, female;

SATELLITE IN: (1) F-type coaxial, female;

SATELLITE OUT: (1) F-type coaxial, female;

COMPUTER: (1) USB Type B female;

LAN: (1) 8-wire RJ45 with 2 LED indicators;  
10/100BaseT Ethernet port;  
Green LED indicates link status;

G: (1) Binding post, chassis ground lug

INPUT 120V 47-63Hz 12A: (1) IEC-320 C14 chassis plug;

ENV PROBE: 6-pin mini-DIN, female;

### Buttons

STATUS: (1) Sequences through display of various electrical and environmental measurements, operational status, battery condition and other system information

SETUP: (1) Sequences through various configuration settings and operations

&Lambda;, V: (2) Used to adjust configuration settings up/down or on/off

Power/Standby: (1) Turns all output banks on or off, forces cold-start to battery when held

CIRCUIT BREAKER (rear): Disrupts power to all outputs in case of an overload condition, press to reset

RESET (rear): (1) Red miniature pushbutton, resets communications board

### Display

Vacuum fluorescent, (2) lines, (20) characters per line

### LED Indicators

BATT IN USE: (1 yellow) Indicates output power is being fed from battery backup

ON LINE: (1 green) Indicates a working connection to the control system

DELAY AMP: (1 green) Indicates the BANK 4 - HI-CURRENT DEVICES output bank is turned on

REGULATING: (1 green) Indicates voltage regulation is operating to compensate for a high or low line voltage condition

LOW BATT: (1 yellow) Indicates remaining backup time has fallen below a preset amount, adjustable from 2 to 26 minutes

AC PWR OK: (1 green) Indicates the line input voltage is within the acceptable operating range of 92V to 142V

FILTERING: (1 green) Indicates that the EMI and RFI noise reduction circuit is active

OVERLOAD: (1 red) Indicates there is too much load connected to the output

WIRING FAULT (rear): (1 red) Indicates a missing ground, overloaded

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### Enclosure

Chassis: Steel, black matte powder coat finish

Cooling: Microprocessor-controlled ultra-quiet rear-facing fan, vented sides

Faceplate: Extruded aluminum, black matte powder coat finish with polycarbonate label overlay

Mounting: Freestanding or 3U 19-inch rack-mountable, rack must be 4-post type up to 28-inch maximum depth (removable feet and rack mount kit included)

### Dimensions

Height: 5.54 in (141 mm);

Width: 17.02 in (433 mm);

Depth: 19.73 in (501 mm)

### Weight

62.0 lb (28.12 kg)

### **ACCESSORIES**

#### **CEN-UPS1250-BTP:**

Notes:

1. External battery, Model # SBATTBLK, sold by American Power Conversion

Corp. (APC), W. Kingston, Rhode Island, US; Website: [www.apc.com](http://www.apc.com)

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A

list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps)

or by calling 800-237-2041.

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