

# 850VA 450W 120V Standby Cloud-Connected UPS with Remote Monitoring - 5 NEMA 5-15R Outlets (Surge + Battery Backup), 5-15P Plug, Desktop

MODEL NUMBER: BC850RNC



Standby cloud-connected UPS offers remote monitoring, automated alerts and data analytics that can predict and prevent issues before they occur.

## Features

### 850VA/450W/120V Battery Backup for PCs and Retail Point-of-Sale Applications

The BC850RNC standby cloud-connected UPS system provides reliable battery backup and AC power protection against blackouts, brownouts, overvoltages, surges and line noise for home/office computing, networking and point-of-sale equipment in retail, kiosks, food service and light industrial environments. For easy access, the input power cable, Ethernet port, AC outlets, power button and status LEDs are all on the same side.

### Easy-to-Use Cloud-Enabled Remote Monitoring Powered by Brightlayer

Eaton's cloud-based remote monitoring app offers convenient setup, control and management of a single UPS or a larger deployment. Scan the QR code on the UPS to download the app to your mobile device. Receive alerts, push configurations, silence alarms or control outlet banks using a mobile app or web browser. Being able to monitor and access an army of UPS systems from a remote location helps reduce the number of site visits, saving you time and money. The unit's NFC (Near-Field Communication) area lets you configure network settings instantly from your mobile device.

### Allows Time to Back Up Critical Files During a Blackout

The BC850RNC restarts automatically once power is restored, regardless of battery charge level, saving you a costly site visit. During short blackouts and brownouts, the BC850RNC switches to battery power to keep connected equipment running. This allows you enough time to save data and complete a safe shutdown in case of a longer outage.

### Premium Protection from Surges and Line Noise Helps Your Equipment Perform Better

Rated for 190 joules of surge suppression, the BC850RNC and its five NEMA 5-15R outlets protect connected devices from the harmful effects of power surges. The BC850RNC also filters out disruptive electromagnetic interference (EMI) and radio frequency interference (RFI) that can destroy data and contribute to lengthy downtime.

### Easy Preventative Maintenance and Initial Troubleshooting

The BC850RNC's self-test capability and user-replaceable internal battery can extend the life of the UPS and minimize disruption to operations. A resettable circuit breaker helps prevent dangerous system overloads.

## Highlights

- Cloud-based dashboard allows 24/7 remote monitoring via browser or mobile app
- Cloud-connected UPS sets up in minutes to start protecting your devices.
- Create account with two-factor authentication for an additional layer of security
- NFC technology allows easy configuration of network settings from your mobile device
- Lets you control outlets or shut down devices using your PC, tablet or smartphone
- Sends you fast alert notifications and responses through email or SMS

## Package Includes

- BC850RNC 120V 850VA 450W Standby UPS
- (4) M4 x 12 mm screws
- (4) M4 x 20 mm screws
- Quick Start Guide



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#### Audible Alarm and Diagnostic LEDs Keep You Informed 24/7

An audible alarm and a red LED indicate a low battery or fault condition. A green LED indicates power and line/battery mode status. The audible alarm can be disabled via the remote monitoring app, which will still respond to silenced alarms.

#### Hardened Housing Compatible with Versatile Deployment Options

The flatpack housing allows use in locations with higher ambient temperatures (operating temperature range: 32° to 122°F / 0° to 50°C). The BC850RNC's small size is suitable for desktop or floor placement. Secure mounting points on the bottom enable horizontal or vertical mounting and are spaced in a 100 x 100 mm VESA pattern for mounting to the back of a monitor with the included hardware. Attachment points allow installation on a shelf or beam with user-supplied cable ties. The five-foot power cord with NEMA 5-15P plug connects to any compatible AC outlet.

## Specifications

| OVERVIEW                           |                       |
|------------------------------------|-----------------------|
| UPC Code                           | 037332283511          |
| UPS Type                           | Standby               |
| INPUT                              |                       |
| Input Phase                        | Single-Phase          |
| Rated input current (Maximum Load) | 7.1A                  |
| Nominal Input Voltage(s) Supported | 120V AC               |
| UPS Input Connection Type          | 5-15P                 |
| Input Circuit Breakers             | (1) 10A               |
| UPS Input Cord Length (ft.)        | 5                     |
| UPS Input Cord Length (m)          | 1.5                   |
| Recommended Electrical Service     | 15A 120V              |
| Maximum Input Amps                 | 7.1                   |
| Input Frequency                    | 50/60 HZ AUTO-SENSING |
| Input Plug Type                    | NEMA 5-15P            |
| Input Cord Length (ft.)            | 5                     |
| Input Cord Length (m)              | 1.52                  |
| OUTPUT                             |                       |
| Output Capacity (VA)               | 850                   |
| Output Capacity (kVA)              | 0.85                  |
| Output Capacity (Watts)            | 450                   |
| Output Capacity (kW)               | 0.45                  |
| Power Factor                       | 0.53                  |
| Nominal Voltage Details            | 120V                  |



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|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Compatibility                      | 50 / 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Frequency Compatibility Details              | 50 or 60Hz +/- 5Hz (Auto-sensing)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Output Voltage Regulation (Battery Mode)     | +/-10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Load Management Receptacles                  | Group of 5x 5-15R                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Output AC Waveform (AC Mode)                 | Sine wave                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Output AC Waveform (Battery Mode)            | PWM sine wave                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Nominal Output Voltage(s) Supported          | 120V                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Output Receptacles                           | (5) 5-15R                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Individually Controllable Load Banks         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>BATTERY</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Battery Type                                 | Valve Regulated Lead Acid (VRLA)                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Runtime Full Load (min.)                     | 1.7 min. (450W)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Runtime Half Load (min.)                     | 8 min. (225W)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Expandable Runtime                           | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DC System Voltage (VDC)                      | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Battery Recharge Rate (Included Batteries)   | 8 hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Battery Access                               | Rear panel battery door                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Battery Replacement Description              | Replaceable internal battery (see manual)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Battery Recharge Time                        | 8 hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>POWER</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Input Voltage(s)                             | 120VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Battery Voltage (VDC)                        | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Switches                                     | POWER ON - Press and hold power button about 1 secondUPS will be turned on. POWER OFF - Press and hold power button about 2 secondsUPS will be turned off                                                                                                                                                                                                                                                                                                                 |
| Alarm Cancel Operation                       | Audible Alarm Enable/Disable - In line modePress and hold power button about 10 secondsFlashing Green LED indicates UPS will enter alarm Enable, Flashing Red LED indicates UPS will enter alarm Disable                                                                                                                                                                                                                                                                  |
| Audible Alarm                                | In battery modePress and hold power button about 5 secondsUPS will enter Temporary Muteand then press and hold 5 seconds again to cancel this setting                                                                                                                                                                                                                                                                                                                     |
| LED Indicators                               | UPS- GREEN - ON SOLID when the line input voltage is normal and battery fully charged. FLASH GREEN in line mode when charging battery. FLASH GREEN every 10s when the UPS is supplying battery power to the loads. RED - Flashes when the battery needs to be recharged and tested. Cloud interface - Network Link/Activity (GREEN): Flashes when there is network activity. Network speed (Yellow): 100 Mbps network speed (On Solid), 10 Mbps network speed (Flashing). |
| <b>SURGE / NOISE SUPPRESSION</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AC Suppression Joule Rating                  | 190                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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|-------------------------------------------------------------|----------------------------------------------------------------------------------|
| AC Suppression Response Time                                | Instantaneous                                                                    |
| <b>PHYSICAL</b>                                             |                                                                                  |
| Primary Form Factor                                         | Desktop; Surface Mount; Wall-mount                                               |
| Shipping Dimensions (hwd / in.)                             | 10.32 x 6.18 x 14.92                                                             |
| UPS Housing Material                                        | Plastic                                                                          |
| Unit Dimensions (hwd / in.)                                 | 3.150 x 11.024 x 7.087                                                           |
| Unit Weight (lbs.)                                          | 7.05                                                                             |
| Unit Weight (kg)                                            | 3.20                                                                             |
| Input Cord Color                                            | Black                                                                            |
| <b>ENVIRONMENTAL</b>                                        |                                                                                  |
| Operating Temperature Range                                 | 32° to 122°F (0° to 50°C)                                                        |
| Storage Temperature Range                                   | 23° to 122°F (-5° to 50°C)                                                       |
| Relative Humidity                                           | 0-95% RH @ 0-40C, non-condensing                                                 |
| AC Mode Efficiency Rating (100% Load)                       | 97%                                                                              |
| Operating Elevation                                         | 0-6562 ft. (0-2000 m)                                                            |
| Audible Noise                                               | 40 dBA at 1 meter front side                                                     |
| <b>COMMUNICATIONS</b>                                       |                                                                                  |
| Network Monitoring Port Description                         | Ethernet port (RJ45) - Port connects to a local network.                         |
| Network Monitoring Port                                     | Network Configuration (options): with NFC; USB-C port: by enabling CLI commands. |
| Network Management Card Description                         | Cloud-connected Remote Monitoring UPS                                            |
| Communications Interface                                    | Near Field Communication (NFC); RJ45 Network; USB-C                              |
| Emergency Power Off (EPO)/Remote On-Off (ROO)               | No                                                                               |
| <b>LINE / BATTERY TRANSFER</b>                              |                                                                                  |
| Transfer Time                                               | 4 - 6 ms (max < 10 ms)                                                           |
| Low Voltage Transfer to Battery Power (Setpoint)            | 95VAC ±5%                                                                        |
| High Voltage Transfer to Battery Power (Setpoint)           | 145VAC ±5%                                                                       |
| <b>FEATURES &amp; SPECIFICATIONS</b>                        |                                                                                  |
| Cold Start (Startup in Battery Mode During a Power Failure) | Minimum Battery Voltage for Cold Start @11V                                      |
| High Availability UPS Features                              | Surge/noise protection                                                           |
| Green Energy-Saving Features                                | Greater than 95% efficiency - GREEN UPS; High efficiency economy mode operation  |



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| APPLICATIONS                        |                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|
| UPS Applications                    | Extreme Temperature Applications; Industrial; Retail/Point of Sale; Home/Office Desktop; Computer/Peripherals |
| STANDARDS & COMPLIANCE              |                                                                                                               |
| Product Certifications              | CAN/CSA-C22.2 No. 107.3 (Canada); ICES (Canada); UL 1778                                                      |
| Product Compliance                  | ENERGY STAR Qualified; FCC Part 15 Class B (USA); RoHS                                                        |
| WARRANTY & SUPPORT                  |                                                                                                               |
| Product Warranty Period (Worldwide) | 3-year limited warranty                                                                                       |

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