



Architects and Engineers Specifications

"The Uninterruptible Power Supply (UPS) shall be an APC Back-UPS BN450M or approved equivalent, designed to provide 450VA / 255W of standby power. The unit shall operate at a nominal input/output voltage of 120V AC, 60Hz. It shall provide a minimum of 6 NEMA 5-15R outlets, with a minimum of 4 outlets providing battery backup during utility failure. The system must include a minimum surge energy rating of 180 Joules. The unit shall feature visual (LED) and audible indicators for On-Line, On-Battery, and Building Wiring Fault status. The UPS shall be capable of automatic self-testing and be certified for energy efficiency."

Standard Features

- **Battery Backup & Surge Protection:** 6 total outlets; 4 outlets provide both battery backup and surge protection, while 2 outlets offer surge-only protection.
- **Building Wiring Fault Indicator:** An integrated LED alerts users to potential wiring issues in the wall circuit, such as a missing ground or reversed polarity.
- **Transformer-Block Spaced Outlets:** Designed with wide spacing to accommodate bulky power adapters without obstructing adjacent outlets.
- **Audible Alarms & LED Status:** Visual and audible notifications for utility power conditions, battery status, and overload.
- **Compact Form Factor:** A small, tower-style footprint optimized for tight desk or shelf spaces.
- **Intelligent Battery Management:** Precision charging to maximize battery life and reliability.

APC Back-UPS BN450M

The APC Back-UPS BN450M is a compact, reliable Uninterruptible Power Supply (UPS) designed to provide essential battery backup and surge protection for home and office electronics. It is engineered to safeguard critical low-power equipment—such as wireless networking gear (routers/modems), security systems, and desktop computers—against power interruptions, brownouts, and voltage surges. The unit features a space-saving design with a total of six NEMA 5-15R outlets and provides immediate battery power during utility failures.

Product Specifications

- **Output Capacity:** 450 VA / 255 Watts
- **Topology:** Standby (Offline)
- **Input Connection:** NEMA 5-15P (5 ft cord)
- **Waveform Type:** Square Wave
- **Transfer Time:** 6ms typical (10ms maximum)
- **Battery Type:** Sealed, maintenance-free, lead-acid (internal)
- **Recharge Time:** 8 hours
- **Dimensions (W x D x H):** 9.98" x 4.13" x 5.51" (25.35 x 10.5 x 14.02 cm)
- **Weight:** 5.73 lbs (2.6 kg)
- **Operating Temperature:** 32°F to 104°F (0°C to 40°C)

Equipment Options

- **Mounting:** Can be placed on a floor, desk, or wall-mounted (keyhole slots provided).
- **Sensitivity Settings:** Adjustable voltage sensitivity (High, Medium, Low) to adapt to varying power quality environments.

Compliance and Certification

- **FCC Status:** Compliant with FCC Part 15 Class B rules for intentional radiators, ensuring no harmful interference with adjacent critical medical equipment.
- **UL Status:** Listed to UL 1069 (Hospital Signaling and Nurse Call Equipment) or UL 2560 (Emergency Call Systems for Assisted Living and Independent Living Facilities) when integrated with an approved head-end master platform.
- **RoHS Status:** 100% RoHS compliant; manufactured without lead, mercury, cadmium, or other hazardous materials restricting electronic waste.