ZincBlue2® 1000/1500W

The Safer, Smarter, Greener, UPS Battery System

Uninterruptable Power Supply (UPS) systems help ensure signalized intersections continue to function properly during utility power disruptions. ZincBlue2® is Econolite's next-generation intelligent Nickel-Zinc (Ni-Zn) battery-based UPS system. Compared to lead-acid battery systems, ZincBlue2 Ni-Zn batteries contain no hazardous materials, are fully recyclable, lighter, and generate virtually no heat. The ZincBlue2 UPS inverter features a single, more compact design for all applications, and provides longer run times with connections to more batteries than before.

ZincBlue2 also provides more intelligence with extensive event logging and a simplified user interface, utilizing the industry's first Navigation Dial for operation and configuration. The Power Interface Module (PIM) provides an easy-to-connect, safe interface for incoming utility AC to ZincBlue2 and the traffic cabinet. ZincBlue2 also has an auto bypass switch and keyed connections for safer and more simplified setup and maintenance.

ZincBlue2 ensures safety for the driving public and emergency responders during hazardous conditions of power outages, and provides a greener, environmentally sustainable alternative to traditional lead-acid Battery Back-up Systems (BBS).

Key Features

- Cabinet space and thermal optimization
- Transformational Ni-Zn batteries with superior performance, safety and environmental advantages over lead-acid
- Simple installation and self-maintaining; innovative form factors and no periodic maintenance
- Hot Swap batteries during a power outage
- 1000W or 1500W options; high load capacity option with UPS 1500W
- Active power supervision includes intelligent two stage operation and built in oscilloscope function
- Enhanced user interface with innovative navigation dial and large, bright display
- Browser based GUI interface, no dedicated software required
- Device management capability within Centracs® ATMS

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Specifications	ZincBlue2 UPS 1000W & 1500W
AC Power Event Log	Stores previous 1000 events with waveforms
Battery Management System	• Digital battery bus • Compartmentalized battery strings • Redundant isolated battery strings managed in parallel upon discharge • Integrated temperature compensated charging • Redundant performance
Certifications	UL/CSA: Battery cell: Recognized UL-2054, CSA 22.2 No. 60950-1
Cold Start	Simple push-button activation of cold start on battery power
Communications	• Display: 64x128 pixel LCD display with white LED backlight • Ports: Ethernet RJ45 - 10/100Mbps, TCP/IP • Dry Relay Contacts: Eight independent programmable Form C Relay (default state: NO); Class 2 only
Environmental	Operating Temperature Range: -34°F to 165°F (-37°C to 74°C)
Firmware Updates	Remote over TCP/IP
Indicators and Alarms	• Alarm Functions: AC power failure, daily time trigger, delay after power failure battery capacity, UPS fault • Audible Indicators: System startup, cold start, inverter on/off, inverter output overcurrent, AC mis-wire, rotating dial (pushing enter or back button on front panel), UPS fault
Input Power	• Input Voltage Range: 120 VAC nominal, 85-140 VAC user programmable • Input Current: 15A max • Input Frequency: 60Hz nominal, ±10% (54-66Hz)
Inverter Performance	• THD: 1000W: <2%; 1500W: <3% • Overload: 1000W: 2,000W surge; 1500W: 3,000W surge
Local/Remote Control	• Front panel navigation dial and button • Embedded web server software for remote connectivity and control
Mounting	Rackmount, Shelfmount, or hanging
Notifications	All alarm functions available on (SNMP, SMTP, Relay)
Operating Modes	Intelligent two-stage operation: • Stage One: Line conditioner, waveform monitoring and switchover to battery backup • Stage Two: Waveform monitoring, return to AC power
Size	1000W: 3.7 in H x 17 in W X 11.6 in D 1500W: 4.6 in H X 17 in W X 11.6 in D
Switchover Thresholds	• AC Voltage: Programmable from 85-140 VAC in 1V steps • AC Waveform Analysis • AC Frequency: 60Hz ±6Hz
Transfer Time	Typical < 33ms (from AC power to battery backup)
UPS Connection System	• AC cable from PIM IEC 320 C20 (male) • AC cable to PIM IEC 320 C19 (female) • Battery Connection System: 7-pin DSUB for up to six battery systems
Weight	1000W: 12 lbs. 1500W: 14 lbs.
UPS Output	• Output Voltage: 120 VAC ±3% • Output Current: 1000W: 8.3A nominal | 1500W: 12.5A nominal • Output Power: 1000W: 1000 Watts | 1500W: 1500 Watts • Output Frequency: 60Hz ±0.5Hz • Output Waveform: Pure sinewave • UPS Efficiency: 97%