ZincBlue2 XRT

ZincBlue2 XRT: The Safer, Smarter, Greener, Extended Run Time UPS Battery Alternative

ZincBlue2 XRT (Extended Run Time) Battery 3600Wh is the newest option in Econolite's line of nickel-zinc (Ni-Zn) battery-based uninterruptable power supply (UPS) solutions. ZincBlue2 XRT features monobloc high-density Ni-Zn batteries along with a dedicated digital battery controller to provide long run-times (up to 8 hours) with a single XRT battery system.

The Benefits to Agencies

ZincBlue2 XRT monobloc batteries are **half the weight** compared to lead-acid batteries and require **no maintenance**, which simplifies installation and overall use of the product. A single XRT system provides up to 8 hours of run time (depending on cabinet load), and combined with the new ZincBlue2 UPS 1500W Inverter, users can access reliable, higher power backup capacity for even longer periods of time. The ZincBlue2 XRT battery system can be hot-swapped, making it easy to provide replacements while powering the intersection. Compared to lead-acid systems, ZincBlue2 XRT offers superior performance, requiring no maintenance, shorter recharge times, and longer operational life with no hazardous materials. The simplified user interface supports browser-based remote system management and alerts.

The Benefits to the Driving Public

Uninterruptable power systems help ensure signalized intersections continue to function properly during utility power disruptions. ZincBlue2 XRT ensures safety for the driving public and includes emergency responders even during long-term power outages. ZincBlue2 XRT provides a greener, environmentally-conscious alternative to traditional lead-acid BBS for a more sustainable solution.

Why ZincBlue2 XRT?

Extended Run Times

- Up to 8 hour run time with a single ZincBlue2 XRT battery system
- Multiple XRT battery systems can be connected to scale up to even longer run-times

Transformational Ni-Zn Batteries

- Superior performance, safety, and environmental advantages over lead-acid
- Recyclable green battery technology is key to Smart City initiatives

Simple Installation & Self Maintaining

- XRT batteries are half the weight of comparable lead-acid batteries
- No periodic maintenance

Highest Power Capacity

- Monobloc XRT batteries provide the highest power capacity of all ZincBlue2 battery solutions

ZincBlue2 XRT Intelligent Management

- IMS Controller provides dedicated intelligent battery management
- Intelligent charge and discharge of monobloc batteries
- XRT monobloc batteries are automatically load balanced

Input	
Voltage / Current Input	90-135VAC, 60Hz @18Amp (MAX)
Input	
Power Output	XRT Battery 3600Wh: 3,600 Watt hours *To achieve optimum battery cycle performance, ZincFive recommends load share >200W per UPStealth® 2 XRT Battery 3600Wh
Voltage Output	48Vdc Nominal
Battery Type & Panel Design	
Chemistry	Nickel-Zinc
Electrolyte	Starved, KOH, Aqueous (no acid)
Configuration	Digital Battery Bus IMS (Intelligent Management System) Integrated Temperature Compensated Charging
Battery Communications	Digital Battery Bus via Single Connector to IMS
Maximum Battery Configuration	6 XRT Battery 3600Wh per UPS (Each XRT Battery 3600Wh consists of IMS plus (4) Z5 13-80 M S Batteries)
Cold Start	Simple push-button activation of cold start on battery power
Mechanical	
Size	XRT Battery 3600Wh IMS: 3.45"H x 16.77"W (19" w/ mounting) x 10.25"D Z5 13-80 M S Battery (Qty. 4): 7.4"H X 10.9"W X 6.9"D (each battery)
Weight	XRT Battery 3600Wh IMS: 11lbs Z5 13-80 M S Battery (Qty. 4): 33lbs (each battery)
Battery Connection System	Single Quick Connect/Disconnect 7W2 Dsub Connector IEC320 C20 Connector for AC Power Two wire DC Power Interconnect Cables (Four - 1 for each Z5 13-80 M S Battery) AC Power Switch (20A Breaker) DC Power Switch (50A Breaker)
Form Factors and Mounting	XRT Battery 3600Wh IMS: Shelf Mount, Rack Mount Z5 13-80 M S Battery - Shelf Mount
Maintenance	
Maintenance	Self-Maintaining, No Periodic Maintenance
Environmental	
Operating Temperature Range	Discharge: (-37°C[1] to 74°C) (-34.6°F[1] to 165°F) Charge: (-37°C[1] to 50°C[2]) (-34.6°F[1] to 122°F[2])
Charge/Discharge	
Battery Charging	Built-In Chargers and Controllers Built-In Battery Balancing Integrated Temperature Compensated Charging Typical 7 Hour and Maximum 12 Hour Charge Time from 0% to 100% State of Charge
Certifications	
UL/CSA Battery: Z5 13-80 H S	UL-1989, CSA 22.2 No. 60896-21
UL 9540A	No thermal runaway exhibited at cell-level test
Indicators & Alarms	
Visual	Multi-Color LED Providing Individual Z5 13-80 M S Battery Status and Alarms • Green = Backup Mode • Blue = Charging Mode • White (Blinking) = Charged, battery at rest • Red = Battery Missing/Miswired • Red (Blinking) = System Fault. Call your representative for assistance. No charging or backup is available when a battery is unplugged.
Warranty	
Warranty	2 Years on XRT Battery 3600Wh IMS, 5 Years on Z5 13-80 M S Batteries

*All Specifications Valid at 25°C   *All Specifications Subject to Change

[1] Charge and discharge operations below a -5°C (23°F) ambient temperature require a heating element

[2] Charge operations discontinued above a 50°C (122°F) ambient temperature to protect system