



ZCB2



ZincBlue2[®] XRT

The Safer, Smarter, Greener, UPS Battery System

Uninterruptable Power Supply (UPS) systems help ensure signalized intersections continue to function properly during utility power disruptions. Econolite's ZincBlue2[®] XRT (Extended Run Time) 3600Wh battery is the newest option in Econolite's line of Nickel-Zinc (Ni-Zn) battery-based UPS solutions. ZincBlue2 XRT 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).

ZincBlue2 XRT features monobloc high-density Ni-Zn batteries along with a dedicated digital battery controller to provide long run times within a single XRT battery system. 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 8-9 hours of run time on a typical cabinet load, and if a second XRT battery system is added run times can be greatly extended.



Key Features

- **Extended Run Time**
 - 8-9 hour typical 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 and 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



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.

| Specifications | ZincBlue2 XRT |
|-------------------------------|---|
| Battery Communications | Digital Battery Bus via single connector to IMS |
| Battery Connection Systems | <ul style="list-style-type: none">• 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 MS battery)• AC power switch (20A breaker)• DC power switch (50A breaker) |
| 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 |
| Chemistry | Nickel-Zinc |
| Cold Start | Simple push-button activation of cold start on battery power |
| Configuration | <ul style="list-style-type: none">• Digital Battery Bus• IMS (Intelligent Management System)• Integrated temperature compensated charging |
| Electrolyte | Starved, KOH, aqueous (no acid) |
| Environmental | Operating temperature range: <ul style="list-style-type: none">• Discharge: -34.6°F to 165°F (-37°C to 74°C)• Charge: -34.6°F to 122°F (-37°C to 50°C) |
| Form Factors & Mounting | XRT battery 3600Wh IMSL Shelfmount, Rackmount Z5 13-18 MS battery |
| Indicators and Alarms | Multi-color LED providing individual Z5 13-80 MS battery status and alarms <ul style="list-style-type: none">• Green = Backup mode• Blue = Charging mode• White (blinking) = System fault. Call your representative for assistance.• Red = Battery missing/mis-wired• Red (blinking) = System fault. Call your representative for assistance.• No charging or backup is available when a battery is unplugged. |
| Maintenance | Self-maintaining, No periodic maintenance. |
| Maximum Battery Configuration | 6 XRT battery 3600Wh per UPS (each XRT battery 3600Wh consists of IMS plus four Z5 13-80 M S batteries) |
| Power Output | XRT Battery 3600Wh: 3600 Watt hours (To achieve optimum battery cycle performance, we recommend load share >200W per XRT battery 3600Wh) |
| Size | <ul style="list-style-type: none">• XRT battery 3600Wh IMS: 3.45 in H X 16.77 in W (19 in w/mounting) x 10.25 in D• Z5 13-80 MS battery (Qty. 4): 33 lbs. (each battery) |
| Voltage / Current Input | 90-135 VAC, 60Hz @ 18Amp (MAX) |
| Voltage Output | 48VDC nominal |
| Warranty | Two years on XRT battery 3600Wh IMS; five years on Z5 13-80 MS batteries |
| Weight | <ul style="list-style-type: none">• XRT battery 3600Wh IMS: 11 lbs.• Z5 13-80 MS battery (Qty. 4): 33 lbs. (each battery) |