

# ZincBlue



The performance and safety characteristics of nickel-zinc batteries, coupled with a smart system design and compelling economics, make this an ideal solution for municipalities across the country.

## About ZincBlue

City agencies and Departments of Transportation throughout U.S. and Canada have made a commitment to increasing safety at signalized intersections with UPS Battery Backup Systems. ZincBlue is an intelligent digital battery backup system that utilizes an innovative Nickel-zinc chemistry to energize signalized intersections and IT equipment when utility power is lost.

With over 355,000 North American signalized intersections, ZincBlue offers cities and municipalities an option over lead-acid when fulfilling a need for battery backup. Creating exceptional savings by cutting down on installation costs, maintenance costs, and providing a reliable system that typically last two times that of a lead-acid equivalent. With built in diagnostic tools and remote monitoring capabilities, ZincBlue is a safe, smart, and efficient system with powerful capabilities.

### At A Glance

- ▶ Low installation costs
- ▶ No external cabinet required
- ▶ Utilizes nickel-zinc batteries to energize intersections
- ▶ Hot swappable
- ▶ Maintenance free



## ZincBlue Family of Products:

### ZincBlue-Hinge Battery Panel

ZincBlue-Hinge Battery Panel utilizes nickel-zinc chemistry, which is a light-weight-high-powered, energy efficient and rechargeable technology. The innovative flex design allows for it to fit between the rack and cabinet shell of a primary 170/2070 33X series traffic cabinet. ZincBlue Hinge is currently available in a 300 Watt and 500 Watt panel, with the ability to connect multiple panels to the inverter/controller to fulfill your required run times.

### ZincBlue NEMA Battery Panel

ZincBlue NEMA Battery Panel utilizes nickel-zinc chemistry, which is a light-weight-high-powered, energy efficient and rechargeable technology. It is designed to set on top or installed underneath the NEMA cabinet shelf. In addition, the battery panel is 19" EIA rack mountable. NEMA ZincBlue comes in a 500 Watt design, with the ability to connect multiple panels to the Inverter/Controller to fulfill your required run times.

### ZincBlue 170 Inverter/Controller

ZincBlue 170 Inverter/Controller is a 19" EIA rack mountable, intelligent digital battery management system compatible with the Living-Hinge and NEMA ZincBlue Battery Panels.

### ZincBlue NEMA Inverter/Controller

ZincBlue NEMA Inverter/Controller is a shelf mount, intelligent digital battery management system compatible with the Living-Hinge and NEMA ZincBlue Battery Panels.



## Benefits

### Nickel-Zinc is a Very Safe Chemistry

Nickel-zinc batteries are a proven safe chemistry that is abuse-tolerant. Nickel-zinc will not catch fire or emit hazardous materials if damaged. Nickel-zinc is certified as RoHS compliant, which indicates that it is clear of hazardous substances and is safe to handle. Nickel-zinc also has no transportation restrictions.

### Maintenance Free with a Long Operational Life

Nickel-zinc batteries have a significantly longer shelf life than lead-acid batteries which will sulfate over time, reducing longevity. Nickel-zinc batteries do not need to be trickle charged, making them ideal for UPS applications.

### High Energy Density in Unique Form Factors

The high energy density of nickel-zinc batteries enables them to be deployed in smaller and lighter packages than other rechargeable batteries. Most notably, nickel-zinc is available in a bendable battery panel that fits between the rack and cabinet shell of a primary 170/2070 33X series traffic cabinet. Configuring your traffic cabinet in this manner saves money, space, and man-hours. Click here for more information about this unique bendable battery.

### Temperature Tolerant with a Wide Operational Range

Nickel-zinc batteries operate effectively at high power over a wide temperature range, often translating into significant savings in total cost of ownership.

### Made of Non-toxic Materials that are Highly Recyclable

Both nickel and zinc are highly recyclable. The battery contains no lead, cadmium or mercury, making it more environmentally friendly than lead-acid and lithium systems.

