

Traffic Cabinet Components and Accessories

ZincBlue BBS 33x

ZincBlue: The Safer, Smarter, Greener BBS

ZincBlue is an intelligent, digital battery backup system (BBS) technology that utilizes an innovative nickel-zinc battery chemistry to energize and maintain signalized intersections and IT equipment operations, even when utility power is lost. ZincBlue's nickel-zinc battery system provides a low maintenance, longer operational life, higher performing and environmentally conscious alternative to lead-acid battery systems.

Why do agencies use it?

The ZincBlue BBS optimizes cabinet space and thermal management due to the unique form factor and cool running nickel-zinc batteries. The batteries can leverage the unused space in a traffic cabinet between the cabinet outer wall and traffic control components for significant battery storage yet lasts over twice as long. The ZincBlue BBS is simple to install with no periodic maintenance required. The system also provides Active Power Supervision of incoming AC power and has the ability to fulfill a variety of run time requirements.

How does it benefit the driving public?

The BBS provides uninterruptible power to ensure signalized intersections continue to function during utility power disruptions. This ensures safety for the driving public and emergency responders even during the hazardous conditions of power outages.





ZincBlue Family of Products:

ZincBlue-Hinge Battery Panel

ZincBlue Living-Hinge Battery Panel utilizes nickel-zinc chemistry, which is a safe, 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 safe 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 battery backup system compatible with the Living-Hinge and NEMA ZincBlue Battery Panels.

ZincBlue NEMA Inverter/Controller

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



Benefits

ZincBlue BBS Performance

The innovative ZincBlue BBS includes nickel-zinc batteries as well as an oscilloscope functionality that continuously monitors incoming AC power protecting cabinet equipment. It is the only BBS designed for simple installation and operation using single battery cables and a digital battery bus optimizing cabinet space. The system, including batteries, utilizes compact, cool-running form factors that take up less cabinet space and contribute to better thermal management.

Nickel-Zinc is a Very Safe Chemistry

Nickel-zinc batteries are a proven environmentally safe chemistry. Nickel-zinc chemistry has no hazardous materials and will not experience thermal runaway. The batteries are highly recyclable and contain no lead, making them more environmentally friendly than lead-acid based systems. Nickel-zinc batteries also have 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 and require no maintenance, 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. 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: saving space, installation man-hours and money.

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.

