

NICKEL-ZINC



ZincFive

The Power of Good Chemistry™

BC 2 AI Battery Cabinet

AI Dynamic Power, Meet Next-Gen Intelligence

- ✓ **AI Pulse Load Optimization** – Built specifically for next-gen AI workloads without guesswork or risky adaptation of legacy solutions.
- ✓ **Advanced Telemetry and Analytics** – Streamlined hardware, enhanced UI and AI Pulse Power intelligence for deeper insights with real-time monitoring and precise workload data capture.
- ✓ **Dual-Use Design** – Features 90 Ah batteries providing runtimes >5 minutes within the same BC 2 Series footprint, while mitigating AI pulse loads.
- ✓ **Low Total Cost of Ownership** – Replaces multiple systems with one, lowering infrastructure, space, and management costs.



The Power of Good Chemistry™, For AI

The world's leading NiZn (Nickel-Zinc) UPS Battery Cabinets are now even more powerful. The BC 2 AI Battery Cabinet features ZincFive's new intelligent Battery Management System, and ZincFive's high-performance 90 Ah batteries.

As legacy solutions struggle in the era of AI Dynamic Power, the BC 2 AI cabinet supports AI dynamic loads and traditional IT back up power in the same, compact system.



Specifications

ZincFive BC 2 AI

37s, 38s, 39s Available

Battery Count

Electrical	
Nominal Voltage	481 Vdc (37s), 494 Vdc (38s), 507 Vdc (39s)
Charge voltage range	552 - 570 Vdc (37s), 567 - 585 Vdc (38s), 582 - 600 Vdc (39s)
Minimum and Maximum charge current	20 A minimum; 160 A maximum
Standard Charging Current	90 A
Battery Option	Z5 13-90 U S F
Electrolyte	Wet, Alkali filled
Battery Chemisty	Nickel-Zinc
Single String Battery configuration	37, 38, 39 battery modules per battery string
System BMS Functions	
Monitoring	BMS manages charge functions and monitors full suite of parameters during pulsing, discharge and standby including battery voltage, temperature and current.
Power Supply	100 - 240 VAC 50/60 Hz standard. Additional 100 - 240 VAC and 600 VDC redundant supply options available
Data Communications	Ethernet, Modbus TCP/RTU, Local Server
Safety and Environmental	
Safety	Batteries exhibit no thermal runaway as per UL 9540A
Breaker Protection	Circuit breaker is accessible with door closed and (manual or upon fault) disconnects batteries from inverter. Various kA rated breakers available depending on configuration.
Operating Temperatue Range	20 °C - 35 °C
Storage Temperatue Range	- 20 °C - 50 °C
Storage period	6 months at 25 °C before batteries need charge
Humidity Range	0 - 90%, Non-Condensing
Cooling	Forced Ventilation Standard
Certifications	
Cabinets	UL 9540, UL 1973, UL 1778, CAN/CSA C22.2 No. 107.3, IEC 62040-1, IEC 62040-2, CE, UKCA, RoHS
Battery	UL 9540A, UL 1973, UL 1989, CAN/CSA C22.2 No. 60950-1, EU 2023/1542
Seismic	IBC 2021, ICC AC156 – SDS 2.29
Mechanical	
Height	82.5" (2096 mm) for Cabinet / 83.5" (2121 mm) with High Voltage Box
Width	21" (533 mm)
Depth	36" (914 mm)
Total Max Weight	2131 lbs. (966.4 kg)



Immediate Power Solutions

Safe, reliable and sustainable short-duration high-rate power technologies for critical applications.