

BC-3830S15BA0

Intelligent Nickel-Zinc Battery Cabinet



ADVANTAGE

- Overcharge/overdischarge/overcurrent alarm
- Overload and short circuit protection
- Industry-leading power density achieved through breakthrough lightweight design
- UL9540A certified for safety and reliability throughout the entire battery lifecycle
- Cloud-based remote diagnosis with closed-loop management from early warning to fault location, enabling full-life-cycle intelligent O&M with enhanced safety and lower costs

FEATURE

▼ High reliability

Open-circuit-free discharge performance

▼ Ultimate safety

Pass extreme tests (axe chopping, drilling, heavy crushing, fire exposure) with zero fire or explosion, significantly exceeding traditional battery safety standards

▼ Medium discharge rate

Support 1C-3C discharge rates, balancing capacity and power requirements for diverse application scenarios

▼ Wide temperature range

Maintain stable performance and high efficiency in extreme environments (-20°C to 55°C), surpassing traditional battery temperature limits

▼ Eco-friendly

Utilize non-toxic materials with >90% recyclability, enabling clean energy closed-loop systems for low-carbon development

SPECIFICATION

Technical parameter	BC-3830S15BA0	
Electrical parameter	Rated voltage	396VDC
	Charging voltage range	Float charge 444VDC, equalization charge 456VDC
	Min & max charging current	Min 11.4A, max 38A
	Fast charging current	38A
	Standard charging	11.4A CC/CV charging to 15.20V, switch to CV charging until cut-off at 3.8A
	Battery nominal capacity	38Ah (38A discharge to 10.4V, 25°C)
	Cabinet power	15kWh
	Max discharging current	190A
	Battery string configuration	30 batteries/string/cabinet (30S1P)
BMS function	Monitoring	Standard: cell voltage, cell & ambient temperature, charge/discharge current, cell IR, float current, SOC/SOH Optional: string voltage, ripple current, ripple voltage, ground insulation, H ₂ concentration, thermal runaway early warning, liquid level, leak analysis & localization
	Protection function	Overcharge/overdischarge/overcurrent alarm
	Data communication	Ethernet, RS485
Safety and environment	Safety	UL 9540A certified, no thermal runaway
	Circuit breaker protection	Automatically cuts off current upon fault detection to protect battery safety
	Operating temperature range	-20°C~+55°C
	Storage temperature range	-20°C~+55°C
	Storage period	Recharge required after storage exceeding 6 months at 25°C
	Humidity range	0~90%RH, no condensation
	Cooling	Air cooling
	Transportation	No shipping restrictions
Certification	Battery	UL 9540A, RoHS
	EU battery directive	UL9540A, RoHS, TTL, EU2023/1542
Size	Dimension(W*D*H)	600mm*700mm*2000mm
	Weight	450kg

North America

Other Area