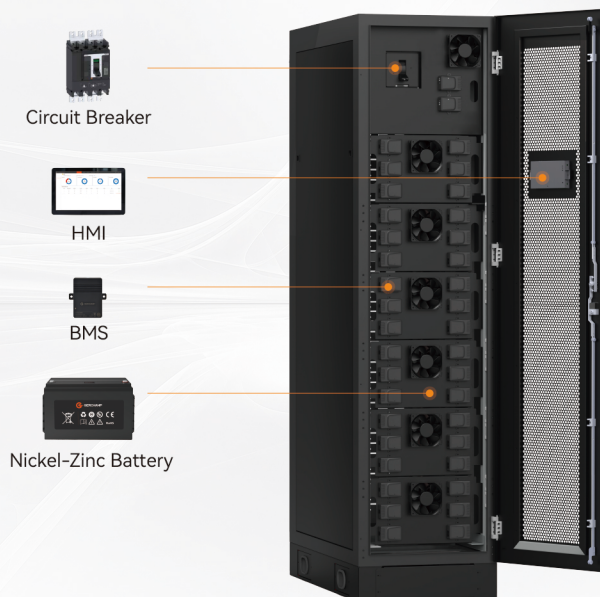


GZC-9038S

Nickel-Zinc Battery Cabinet

Built for 15-Minute Backup

The GZC-9038S combines Gerchamp's intelligent BMS with 8XNFG90 Nickel-Zinc batteries, delivering 10C high-rate discharge, intrinsic safety, and zero thermal runaway risk.



FEATURES

▼ Intrinsic safety

Aqueous-based electrolyte with no thermal runaway, fire, or explosion risk; no open circuit during discharge, ensuring reliable series-connected battery strings.

▼ High discharge rate

Supports 0.5C–10C discharge, balancing capacity and power to suit different applications.

▼ Wide temperature range

Stable, efficient performance from -20°C to 55°C , breaking traditional battery temperature limits.

▼ Rapid deployment

Compatible with mainstream MW-class UPS inverters, directly replacing existing lead-acid battery cabinets with no power distribution system modifications.

▼ Eco-friendly

Non-toxic materials with over 90% recyclability, supporting low-carbon development.

▼ Space saving

Over 75% lighter and 60% smaller footprint than lead-acid batteries at the same discharge capability.

SPECIFICATIONS

Item	Technical Specification		
Model	GZC-9036S	GZC-9037S	GZC-9038S
Electrical			
Battery configuration	36S	37S	38S
Cell nominal capacity	90Ah (discharge at 90A to 10.4V, 25°C)		
Cell nominal energy	1.188kWh		
Cabinet energy	43 kWh	44 kWh	45 kWh
Rated voltage	475VDC	488VDC	501VDC
Battery option	Nickel-zinc battery – 8XNFG90		
Charging voltage	Float charge 532.8VDC, equalization charge 547.2VDC	Float charge 547.6VDC, equalization charge 562.4VDC	Float charge 547.6VDC, equalization charge 562.4VDC
Charging current	27A~90A		
Standard charging current	45A		
Maximum discharge current	900A		
Charging time	3-5 hours		
Application	Used for backup power scenarios of less than 15 minutes		
System BMS function			
Monitoring	Monitor and analysis battery voltage, internal resistance, temperature, charge/discharge current, equalization voltage, float voltage, etc.		
State estimation	SOC, SOH		
Self-test	Automatic test cycle can be set without manual intervention		
Alarm	Support alarm management; when any value exceeds the limit, an alarm is automatically triggered, local indicator lights up, buzzer sounds, alarm register is set, and dry contact is activated		
Data record	Support historical data recording / event alarm recording		
Data communication	1 Ethernet port output	Communication protocols: MODBUS/RTU, MODBUS/TCP, SNMP	
Built-in WEB	Support WEB remote real-time data viewing, function control, and parameter configuration		
Safety			
Certification	UL 9540A, EU2023-1542, RoHS, UL 94 V-0		
Circuit breaker protection	In case of overload fault, the circuit breaker trips		
Fuse protection	In case of short circuit fault, the fuse blows		
Operating temperature range	Discharge: -20°C~+55°C Charge: 0°C~+40°C		
Storage temperature range	-20°C~+55°C		
Storage period	After storage exceeding 3 months at 25°C, the battery requires recharging		
Humidity range	0~85%, non-condensing		
Cooling method	Air cooling		
Mechanical			
Dimension	530(W)*1000(D)*2100(H) mm		
Weight	1100kg		

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