

# 8XNFZ38

# NICKEL-ZINC BATTERY



Data Center



Railway  
Transportation



Financial  
Bank



Petroleum &  
Petrochemical



Emergency  
Power Supply



Communications  
Equipment

## FEATURE

### ▼ Safe and reliable

During discharge, experience no circuit failure and pass extreme tests (axe chopping, drilling, heavy crushing, fire exposure) with no explosion or fire risks, outperforming traditional batteries.

### ▼ High rate

3C discharge rate supported, meeting high-power electricity demands within a short timeframe.

### ▼ Wide temperature range

Efficient and stable operation under  $-20^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , reducing the environment requirement.

### ▼ Eco-friendly

>90% recyclability, made from non-polluting materials, promoting clean energy use and contributing to carbon footprint reduction.

### ▼ Smaller and lighter

Higher power density with 1/2 size reduction and 2/3 weight reduction of lead-acid batteries at same capacity.

## SPECIFICATION

Technical parameter	8XNFZ38
Nominal voltage	13.2V (1.65V*8 cells)
Nominal capacity	38Ah (1C discharge to 10.4V at 25°C)
Nominal power	920W (30min rate/10.4V, 25°C)
Weight	7800±200g
Gravimetric energy density	67.7Wh/kg
Volumetric energy density	137.4Wh/L
Internal resistance	< 8 mΩ
Open-circuit voltage	≥14.40V
Equalizing charge voltage	15.20V, 0.3C (25°C)
Float charge voltage	14.80V, 0.3C (25°C)
Fast charge rate	1C (10~45°C)
Standard discharge rate	1C (-20°C~+55°C)
Maximum discharge rate	3C (-10°C~+55°C)
Storage temperature	-20°C~+55°C
Self-discharge performance	1 month: 80%SOC, capacity retention rate ≥90%
	3 month: 80%SOC, capacity retention rate ≥80%
	12 month: 80%SOC, capacity retention rate ≥70%
Cycle life (25°C)	500 Cycles (0.5C at 100%DOD)
	300 Cycles (3C at 100%DOD)
Dimensions (L*W*H)	225.5*122.5*142.5(mm)
Terminal	M6 copper cell
Enclosure material	V0-rated flame-retardant ABS engineering material
Certifications and regulations	UL9540A, RoHS, TTL, EU2023/1542

### North America

### Other Area