GERCHAMP

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℃ to 55℃, 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
Electrical performance	Nominal voltage	13.2 V
	Nominal capacity	38Ah
	Rated power	920W (30min rate/10.4V, 25°C)
	Specific energy	67.7Wh/kg
	Energy density	137.4Wh/L
	Cycle life	500 cycles (0.5C 100%DOD)
		300 cycles (3C 100%DOD)
	Open-circuit voltage	≥14.40V
	Equalizing charging voltage	15.20V, 0.3C (25℃)
	Charging current	Fast: 38A
	Discharging current	Standard: 19A
		Fast: 38A
		Max: 114A
	IR	<8mΩ
	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%
Environment	Operating temperature	-20℃~+55℃
	Storage temperature	-20℃~+55℃
	Flame retardant level	UL 94 V-0
	Terminal	M5
	Torque	6.5-7 Nm
	L*W*H	225.5*122.5*142.5 (mm)
	Weight	7800±200g

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