ENEPOWER

NaCR32140-MP10

Sodium-ion battery

3V | 10Ah | Na-Ion | 30Wh

Rechargeable Sodium Ion (Na-Ion) 32140 Size

SPECIFICATIONS

No.	Test Item		Criterion
1	**Voltage**	Rated voltage	3.0V
2	**Current**	Nominal capacity	10Ah
		AC internal resistance	≤3μΩ
		DC internal resistance	≤10μΩ
		Standard continuous charge/discharge current	5A
		Maximum continuous charge/discharge current *(3C CC to 4V Charge capacity > 90% Temp. rise < 20°C)*	30A
3	**Energy density**		≥110Wh/kg
4	**Charge cut-off voltage**	T ≥ 45°C	3.95V
		0°C < T < 45°C	4.0V
		-10°C ≤ T ≤ 0°C	3.65V
		-20°C ≤ T < -10°C	3.5V
5	**Charge cut-off current**	T > 0°C	500mA (0.05C)
		T ≤ 0°C	1000mA (0.1C)
6	**Discharge cut-off voltage**		2V
7	**Service life**	High-temperature cycle *45°C, 0.5C, 2 ~ 3.95V, capacity retention rate ≥ 70%*	≥ 1200
		Room-temperature cycle *25°C, 0.5C, 2 ~ 4V, capacity retention rate ≥ 70%*	≥ 3000
		Rate cycle *25°C, 2C non-constant voltage, capacity retention rate ≥ 70%*	≥ 1500
		Room-temperature over discharge characteristic cycle *25°C, 0.5C, 0 ~ 4 V cycle, capacity retention rate ≥ 95%*	100
8	**Dimensions**	Diameter: Φ33.2 ± 0.2mm Height: 140 ± 0.3mm	
9	**Weight**	265 ± 5g	

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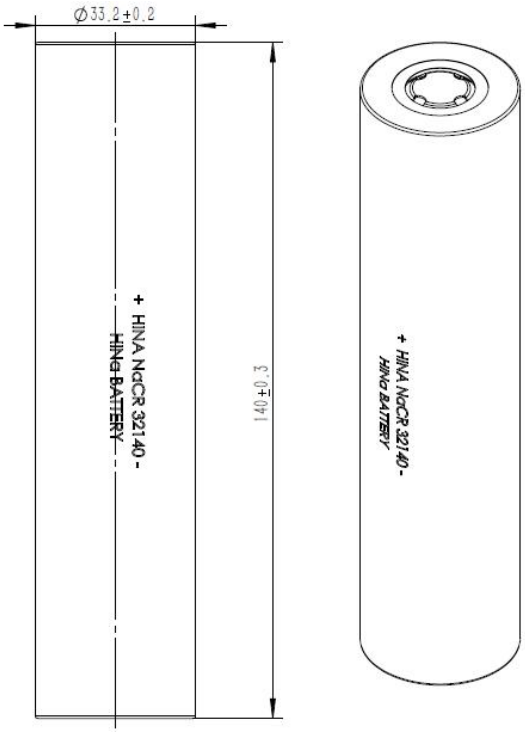
IMAGE

DIAGRAM



SAFETY & PRECAUTIONS

Transport	The state of the battery during transportation is 30%-55% SOC. The battery is packed into boxes for transportation. During transportation, it should be protected from severe vibration, impact or extrusion, protected from sunlight and rain, and must not be turned upside down. During the loading and unloading process, products should be handled with care, and strict precautions should be taken to prevent throwing, rolling, and heavy pressure.
Storage	Batteries stored for a long period of more than 6 months must be placed in a dry and ventilated place. The storage state is 20-50% SOC. The battery storage temperature is -20°C-30°C. The battery must be charged and discharged every 6 months. Abuse of sodium-ion rechargeable batteries may cause battery damage or personal injury. Please read the following safety rules carefully before using sodium-ion batteries.
Safety rules	a) Do not throw batteries into fire or heat b) Do not short-circuit, overcharge or over-discharge the battery c) Do not subject the battery to excessive mechanical shock d) Do not immerse the battery in sea water or water, or allow it to absorb moisture e) Do not reverse the positive and negative poles of the battery f) Do not disassemble or modify the battery g) Do not use batteries that are visibly damaged or deformed h) Do not come into direct contact with a leaking battery i) Keep batteries away from children j) Do not prick, hit or step on the battery k) Do not hit or throw batteries Matters not mentioned in this specification must be confirmed by our company. Our company reserves the right of final interpretation of the contents stated in this specification.