Zmartec Technology(Shenzhen)Ltd

Sodium-ion start-stop battery H9-121025

1. Product features

(1) Utilize cutting-edge technology and processes to manufacture sodium batteries, ensuring high reliability;

(2) Under standard conditions, it can achieve 100% DOD charging and discharging, with a cycle count exceeding 3000 times;

(3) Equipped with an internal BMS device to enhance safety;

(4) Light weight, about 35% to 40% of the weight of lead-acid batteries;

(5) Replaceable lead-acid batteries and lithium batteries;

(6) Wide operating temperature range, from -40℃ to 100℃;

(7) Maintenance-free.

2. Performance parameters

2.1 Electrical performance

part	category	Specifications
Electrical performance	Product Model	H9- 121025
	Rated voltage (V)	12
	Power parameter / W	1025
	Internal resistance / mΩ	≤5
	Cycle life/duration	≥3000 cycles (0.2℃, 100 charge-discharge cycles until the capacity drops to 70%)
	Cca/a	1000
	self-discharge	≤3.5% (monthly @25℃)
Standard loading	Charging voltage / V	12~ 16±0.5
	Charging mode (CC/CV)	Under the environment of 0~55℃, first charge at a constant current of 0.2C until reaching 14.4V, then continue charging at a constant voltage of 14.4V until the current drops to 0.05C, and then stop.
	Standard charging current / A	12
The standard allows... to leave	Standard discharge current (in A)	50~ 100
	Maximum pulse current / A	1000 (<5s)
	Discharge cut-off voltage/V	7.2V
environment	Charging Temperature	0℃~80℃ at 60±25% humidity
	Discharge temperature	-40℃~ 100℃
	Storage temperature	0℃~45℃
Material and Size	unit	Sodium-ion battery (NFPP)
	Shell material	PC+ABS
	Size (Length*Width*Height) / mm	378* 175* 190

	Weight / Kg	/
	fatal	T2 (coarse)

3. Product appearance