

A2D2

≡ Na⁺-Ion

Sodium-Ion Battery / Na-Ion

48V / 100Ah (4800Wh)

ESNA-A2R48V100-A05

ENERGY STORAGE SODIUM-ION BATTERY

Telecom & Other Systems



Product Introduction

Smart sodium-ion battery 48V100AH is a new energy storage battery product based on innovative sodium-ion technology, the smart SIB is specially developed and designed for telecom sites, with high safety sodium-ion prismatic cell, integrated with intelligent BMS and DC/DC.

The product not only supports wide temperature range, fast charging, anti-theft (software lock+gyroscope), intelligent management and long service life, but also can support hybrid use of Li-ion battery and VRLA battery, which helps telecom carriers fully use the legacy batteries during site's power expands, greatly saving the initial investment and improving the return on investment.

Product Advantages

Safe

Advanced sodium-ion battery technology, fully pass nailing testing, no fire, no smoke, no explosion, 3 levels protection from cell to pack.

Simple

Self-developed BMS and DCDC technology, high charging efficiency, flexible configuration, easy use and install, support 32 blocks in parallel.

Smart

Standard rack design, hybrid use of VRLA or Li-ion Battery, automatic charging and discharging, with SNMP and TCP/IP to remote monitoring.

Secure

Anti-theft function, with gyroscope and software lock, which renders the battery output inoperative.

Sustainable

Extraordinary long lifetime and cycle life, environmentally friendly, green and clean, easy recycle, local disposal.

Battery Cell	
Cell type	Sodium-ion Prismatic Cell
Model	NaCP71173208-160E3
Nominal voltage	3.05V
Rated capacity	160Ah
Cell configuration	1P10S
Battery Pack	
Rated voltage	48V
Rated capacity	100Ah
Nominal energy	4800WH
Dimension(W*D*H)	480*550*200mm
Weight	55Kg
Design life time	15 Years
Ingress protection class	IP20
Installation	Standard 19" Rack
Cooling method	Natural Cooling
Electrical Parameters	
Float voltage	54V-57.6V
Discharge cut-off voltage	48V-57V(supporting constant voltage output)
Recommended charge current	50A
Maximum charge current	100A
Recommended discharge current	50A
Maximum discharge current continuous	100A
Overload discharge current	120A
Maximum DoD recommended	80%DoD
Energy efficiency	≥93%
Cycles	≥8000 cycles,80%DOD
End Of Life	<80%
Battery Operation	
Operating temperature-charge	-10°C-60°C
Operating temperature-discharge	-10°C-60°C
Storage conditions and temperature range	0°C-60°C
Maximum relative humidity	95%
Maximum operating altitude	9000m
Self-discharge	≤4%/ month @25°C
Shelf life time	6 months