



## Smart sodium-ion battery for telecom SIB-48100

### Product Introduction

Zynavex 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, environmental friendly, green and clean, easy recycle, local disposal.


Battery Cell	
Cell type	Sodium-ion Prismatic Cell
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	46±1Kg
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,70%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

\*Specifications may change without notice as part of continuous improvement.  
\*Images are illustrative; actual product/configuration may vary.

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