

TELECOM SOLUTIONS

Sodium-ion Battery Pack

Model: Smart-SIB48100A

OSPOWER

Manufacture by Highstar

APPLICATION IN EXTREMELY COLD WEATHER

-40°C~60°C

PRODUCT INTRODUCTION

Smart-SIB48100A is a new battery product based on innovative sodium-ion battery technology, the smart sodium-ion battery is especially developed and designed for telecom sites, with safe and green sodium-ion prismatic cell, integrated with smart BMS and DCDC inverter. The product not only supports fast charging, anti-theft function, long cycle life and smart BMS, but also supports the hybrid use of Li-ion battery or VRLA battery, which can help telecom operators to reduce initial investment and improve 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 soft-ware lock, which renders the battery output inoperative.

◆ SUSTAINABLE

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



APPLICATION SCENARIOS



Indoor distribution system



Integrated base station



Marginal station



Micro BTS



FTTX device



Distributed Power Supply

SPECIFICATION

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)	480mm*510mm*189mm(±2mm)
Weight	65±2Kg
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	42V
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	-20℃-60℃
Operating temperature-discharge	-40℃-60℃
Storage conditions and temperature range	0℃-60℃
Maximum relative humidity	95%
Shelf life time	6 months
Self-discharge	≤3%/month @25℃

Manufacture reserve the right to alter or amend the design,model and specification without prior notice