

TELECOM SOLUTIONS

Sodium-ion Battery Pack

Model: SIB48150

OSPOWER

Manufacture by Highstar

PRODUCT INTRODUCTION

SIB48150 is a new energy storage battery product based on innovative sodium - ion technology. It is specially developed and designed for telecom sites, with high - safety sodium - ion prismatic cell, integrated with intelligent BMS.

The product not only supports wide temperature range, fast charging, anti - theft (software lock + gyroscope/GPS), intelligent management and long service life, but also can support LCD + Breaker. This 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 technology, high charging efficiency, flexible configuration, easy use and install, support 16 blocks in parallel.

◆ Smart

Standard rack design, with LCD screen and breaker, automatic charging and discharging, with SNMP and TCP/IP to remote monitoring.

◆ Secure

Anti - theft function, with gyroscope, software lock and GPS, 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	1P16S
Battery Pack	
Rated voltage	48V
Rated capacity	150Ah
Nominal energy	7200WH
Dimension(W*D*H)	442*720*230mm ± 2mm
Weight	90.5Kg ± 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	42V
Recommended charge current	75A
Maximum charge current	100A
Recommended discharge current	75A
Maximum discharge current continuous	100A
Overload discharge current	110A
Maximum DoD recommended	80%DoD
Energy efficiency	≥93%
Cycles	≥8000 cycles,80%DOD
End Of Life	<80%
Battery Operation	
Operating temperature-charge	0℃-60℃
Operating temperature-discharge	-20℃-60℃ ≤95%
Storage conditions and temperature range	0℃~35℃ ≤85%
Maximum relative humidity	95%
Shelf life time	6 months
Self-discharge	≤3%/month @25℃

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