

# TELECOM SOLUTIONS

## Sodium-ion Battery Pack

Model: SIB48150A

**OSPOWER**

Manufacture by Highstar

## APPLICATION IN EXTREMELY COLD WEATHER

-40°C~60°C

## 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               | 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