

TELECOM SOLUTIONS

Smart Li-on Battery Pack

Model: Smart Li-48100

OSPOWER

Manufacture by Highstar

INTRODUCTION

This product is specifically designed for 48V TELECOM systems. It comes with a DC/DC module that can autonomously and dynamically adjust the charging and discharging current and voltage in real time. It has functions such as intelligence, anti-theft, mixed use of new and old batteries, and mixed use of lead lithium batteries. It can also be connected to a cloud platform through the network to achieve cloud monitoring and management.

PRODUCT FEATURES

- ◆ Standard rack-mounted installation design (3U)high energy density
- ◆ Integrated with high-efficiency BDC allowing for active charge and discharge control
- ◆ Long cycle life
- ◆ Optional intelligent anti-theft method supported: gyroscope tilt lock
- ◆ Support for mixed use of lithium and lead-acid batteries, support for parallel connection of new and old lithium batteries
- ◆ Support high current charge/discharge
- ◆ Support cloud platform access



APPLICATION SCENARIOS



Indoor distribution system



Integrated base station



Marginal station



Micro BTS



FTTX device



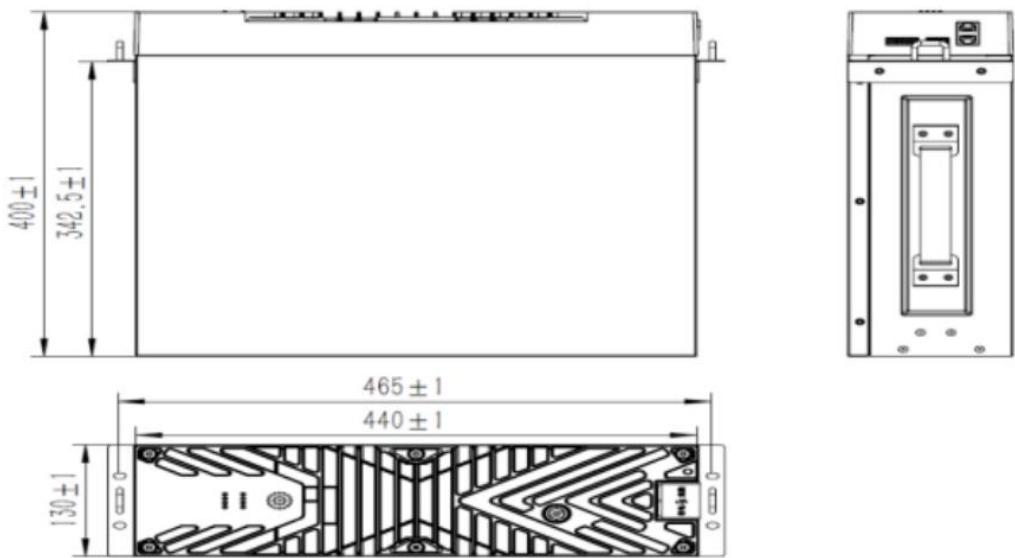
Distributed Power Supply

SPECIFICATIONS

Battery Cell	
Nominal voltage	3.20V
Rated capacity	100Ah
Cell configuration	1P15S
Battery Pack	
Rated voltage	48V
Rated capacity	100Ah
Nominal energy	4800WH
Dimension(W*H*D)	3U, 440*130*400mm
Weight	≈42±2Kg
Design life time	15 Years
Ingress protection class	IP20
Installation	Standard 19"rack
Cooling method	Natural Cooling
Electrical Parameters	
Charging Voltage	54.5V
Discharge cut-off voltage	44V-57V(supporting constant voltageoutput)
Recommended charge current	50A
Maximum charge current	100A
Recommended discharge current	50A
Maximum discharge current continuous	100A
Overload discharge current	105A
Maximum DoD recommended	80%DoD
Energy efficiency	≥95%
Cycles	25°C,0.5C/0.5C@80%DOD,≥6000 cycles
End Of Life(EOL)definition	<80%
Battery Operation	
Operating temperature-charge	0°C-45°C
Operating temperature-discharge	-20°C-60°C
Storage conditions and temperaturerange	15°C-30°C
Maximum relative humidity	0.95
Balance Method	Passive Balance

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

TECHNICAL DRAWINGS



PERFORMANCE CURVE

