

OUTDOOR TELECOM BATTERY

LFPB4850



DESCRIPTION

LFPB4850 is a distributed energy storage module based on innovative Li-ion technology. It supplies backup energy for macro site, small cell, and remote RRU. It is especially designed for working together with Distributed Power Unit.

FEATURES

- Natural cooling
- High charge acceptance
- Long cycle life
- Designed for outdoor application
- Mounting on a pole, wall, channel steel, or angle steel
- Protection: over temperature, over current, short circuit, over charge/discharge, etc
- Allows parallel operation of multiple DPUs and lithium batteries
- Same set of mounting kits for all scenarios, survey-free
- Quick connectors for input, output ports, and communication ports, which are foolproof and prevent reverse connection
- Online expansion to increase backup time

SPECIFICATION

Rated voltage	48VDC
Rated capacity	50Ah (2400Wh) at 5hrs, 35°C
Operating voltage	47VDC ~ 57VDC
Float charging voltage	54.5VDC
Max backup power	3000W
Max charge current	Default: 10A Max: 25A
Max discharge current	64A
Self discharge (at 25°C)	< 5% after 90 days storage
Cycle life	1200 cycles (100% DOD, 35°C)
Safety standards	IEC60950-1, IEC62368-1, IEC/EN 60950-22, IEC 62619, GB4943-2011, UN38.3
MTBF	500,000 hours (25C ambient temp, excluding electrochemical cells)
Dimensions (HxWxD)	420mm x 120mm x 300mm
Weight	≤26kg

ENVIRONMENT

Protection level	IP65
Cooling	Natural cooling (fanless design)
Operating temp range	-40°C ~ +55°C
Storage temp range	-40°C ~ +60°C
Humidity (operating and storage)	5% ~ 95% (no condensation)
Altitude	≤4000m (2000m ~ 4000m operating temp drops 1°C per 200m)

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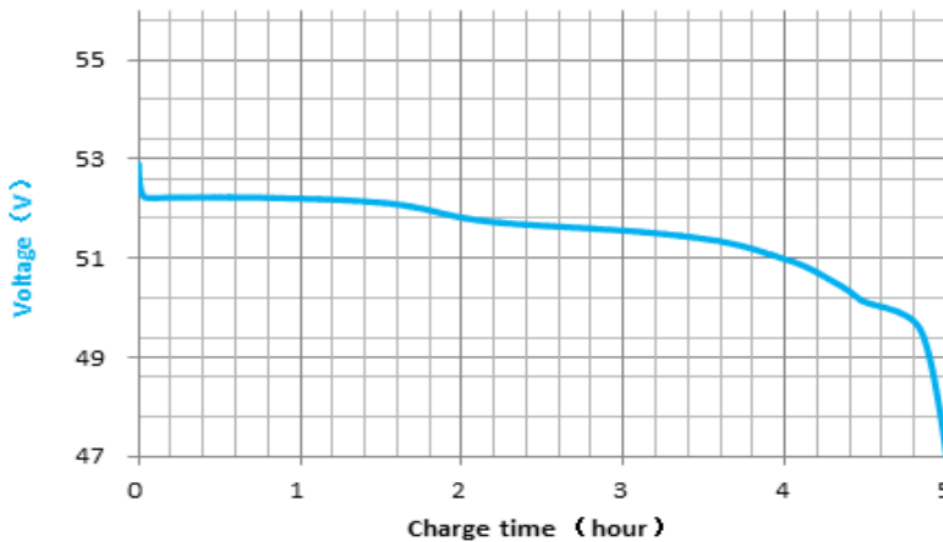
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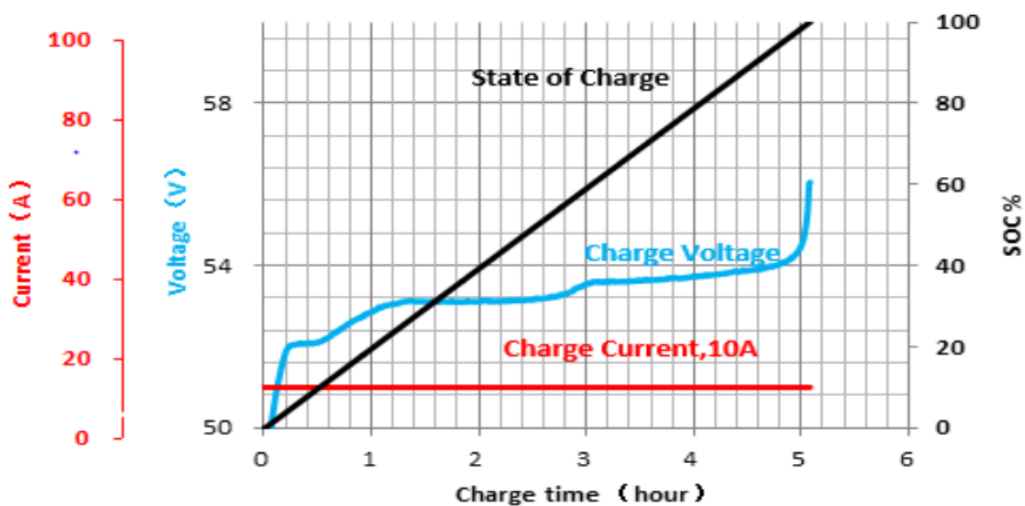


1. The recommended storage temperature is $+20^{\circ}\text{C}$ to $+30^{\circ}\text{C}$, battery life would be reduced if stored in high temperature (The recharging interval should be 12 months under the condition of storage temperature $<+30^{\circ}\text{C}$, and 8 months under the condition of $+30^{\circ}\text{C} < \text{storage temperature} < +40^{\circ}\text{C}$)
2. Affected by the external environment factors, such as temperature and duration of transportation and storage, the rated capacity may fluctuate by $\pm 5\%$

Discharge Performance@0.2C,25deg



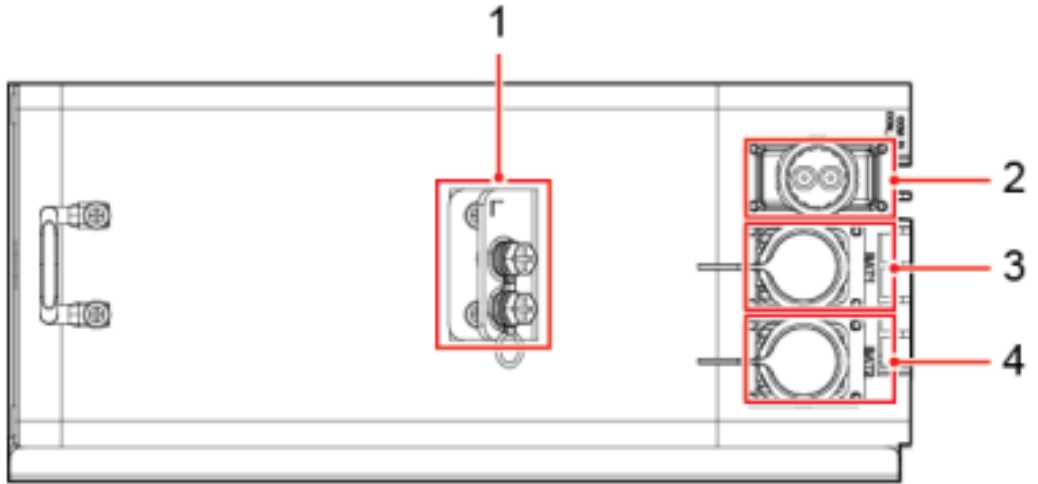
Charge Performance@25°C



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- (1) GND screws (2) COM port (3) Battery output 1
- (4) Battery output 2

POWER PORTS

Port	Fuse capacity	Function
BAT1, BAT2	2x 80A quick-connector (w/o fuses)	Battery output port

COMMUNICATION PORTS

Port	Communication parameters	Protocol	Function
COM	-	CAN2.0	Communicates with a DPU or with a cascaded lithium battery

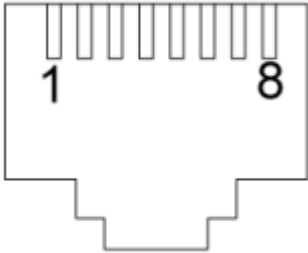
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COM



RJ-45 female connector

Pin	Signal	Description
1	NC	NC
2	NC	NC
3	CANH	CAN data send/receive HIGH
4	NC	NC
5	NC	NC
6	NC	NC
7	CANL	CAN data send/receive LOW
8	GND	Protective ground

LIST OF AVAILABLE ALARMS

Alarm type	Alarm
Battery fault	Board Hardware Fault/Heater Fault/Battery Cell N Fault/Address Conflict
Recoverable battery alarm	Discharge Overcurrent Protection/Charge Overcurrent Protection/High Temperature protection/Low Temperature Protection/Abnormal Close/Charge Overcurrent Protection/Discharge Overcurrent Protection