

SmartPower 48V50Ah (2U)

SCIFP4850 lithium-ion battery system

SCIFP4850, a powerful 48V LiFePO₄ battery product, has been especially designed to provide power backup for remote or outdoor telecom sites, off-grid, on-grid and household usage energy storage systems. Its modular design enables parallel installation meeting also the needs for larger power back up.



Benefits

- Increased energy in given space
- Easy installation and upscaling
- High operational reliability
- Optimized supervision strategy through remote control/diagnostic
- Excellent long life time
- Built-in intelligent BMS to protect the battery pack at any time and prolong its service life

Standards

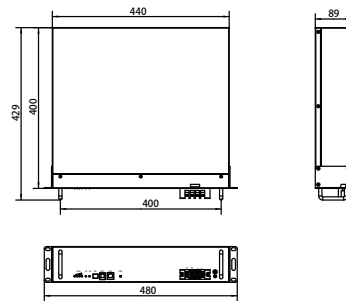
a. Product

- IEC 60950
- IEC 62321
- IEC 62133
- UN 38.3
- UL 1642
- UL 1973

b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

Drawing



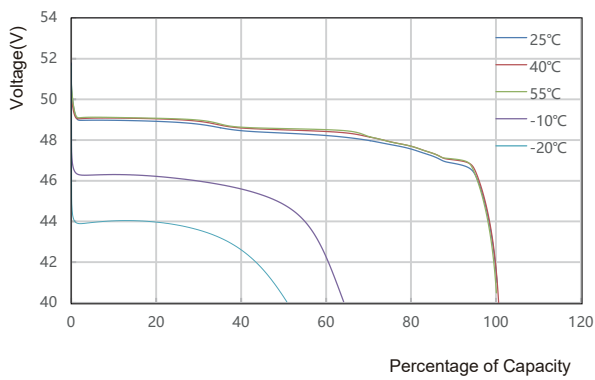
Specifications

| Nominal Characteristics | | |
|--------------------------------------------|--------|--------------------------|
| Battery Model | | SCIFP4850 |
| Nominal Voltage | | 48V |
| Typical Capacity | | 50Ah(25 °C,0.2C) |
| Typical Energy | | 2400 Wh |
| Volumetric Energy Density | | 153.2 Wh/dm ³ |
| Gravimetric Energy Density | | 92.3 Wh/kg |
| Dimensions | Width | 440mm |
| | Height | 89mm(2U) |
| | Depth | 400mm |
| Reference Weight | | 26.0Kg |
| Electrical Characteristics | | |
| Voltage Window | | 40.5~54.0V |
| Charge Voltage Range | | 52.5~54.0V |
| Max. Permanent Discharge Current | | 50A |
| Max. Permanent Charge Current | | 50A |
| Faradic Charge Efficiency | | 99% (+20°C) |
| Energy Charge Efficiency | | 94% (+20°C) |
| Communication Interface (optional feature) | | Modbus/SNMP/TACP |
| Additional Features (optional feature) | | -- |
| Operation Environment | | |
| Charge Temperature | | 0°C to +55°C |
| Discharge Temperature | | -20°C to +60°C |
| Storage Temperature | | -20°C to +60°C |
| Protection Class | | IP20 |

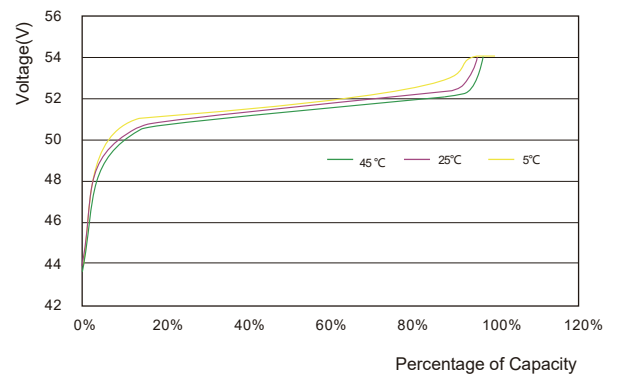
Discharge Data

| Constant Current Discharge Data(25°C) | | | | | | | | | | | | |
|---------------------------------------|-----------|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage/V | Current/A | | 0.1C | 0.2C | 0.3C | 0.4C | 0.5C | 0.6C | 0.7C | 0.8C | 0.9C | 1.0C |
| | Time/h | | | | | | | | | | | |
| 45.0 | | | 9.560 | 4.902 | 3.283 | 2.442 | 1.943 | 1.601 | 1.369 | 1.191 | 1.050 | 0.950 |
| 43.5 | | | 10.017 | 4.993 | 3.339 | 2.475 | 1.978 | 1.634 | 1.399 | 1.210 | 1.080 | 0.970 |
| 42.0 | | | 10.094 | 5.041 | 3.374 | 2.517 | 2.008 | 1.654 | 1.409 | 1.232 | 1.090 | 0.980 |
| 40.5 | | | 10.201 | 5.090 | 3.390 | 2.533 | 2.021 | 1.674 | 1.420 | 1.240 | 1.099 | 0.989 |

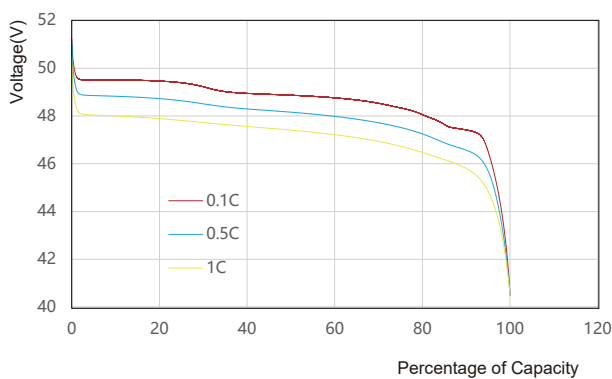
Performance Curve



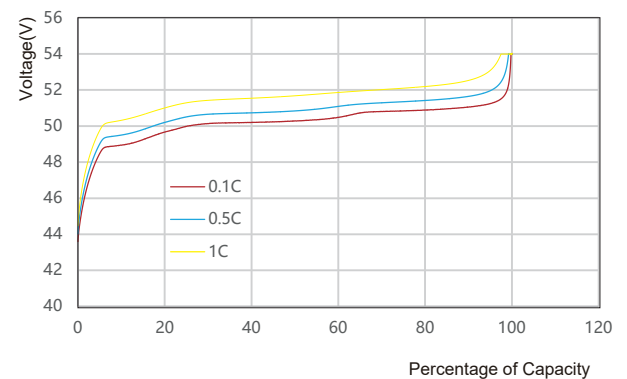
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

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