

SQPSi48-50

DATA SHEETS



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| Model | SQPSi48-50 |
| Nominal Voltage | 48V |
| Nominal Capacity | 50 Ah |
| Dimensions | 442*400*132 mm |
| Approximate Weight | 25 Kg |
| Internal Impedance | $\leq 40 \text{ m}\Omega$ |
| Technology | Lithium Iron Phosphate (LiFe PO4) |
| Operating Voltage Range | Max. 54.7V |
| Recommended Charge Current | 10A (0.2 capacity) |
| Maximum Charge Current | 50A |
| Discharge Cut Off Voltage | 40V |
| Recommended Discharge Current | 10A (0.2 capacity) |
| Maximum Discharge Current | 50A |
| Operating Temperature | Charge: 0 ~ 45°C / Discharge: 0 ~ 60°C |
| Storage Temperature | -20 ~ 65°C (1 month) -10 ~ 45°C (3 month) 10 ~ 35°C (6 month) |
| Storage Humidity | 60 \pm 25% R.H |
| Cycle Life | 5500 cycle @70% DoD, 0.2C 4800 cycle @ 80% DOD, 0.2C |
| Communication Port | RS485 / RS232 / CAN |

BMS FUNCTION

SQPSi series battery is packed with the Battery System (BMS).

The main function of the BMS are as follows:

- Over charge protection
- Over discharge protection
- Over charge current protection
- Over discharge current protection
- Short protection
- Temperature protection
- Balance function
- Communicate function
- Alarm function

CHARACTERISTICS

- Use LiFePO4 as material of cell, can give up to 100% Depth of Discharge (DoD)
- 1/3 size of Lead Acid Battery

APPLICATION

- Telecommunication
- Energy Storage