

IPX-51314SPT

# Battery



**IPX-51314SPT | 314Ah**



## Class-A LiFePO4 Battery Cell

Life Cycle 6000  
High Safety and Performance



## Intelligent Software BMS

50+ Protection Algorithms for Safety and Longer Lifespan  
3-Level Hardware Protection: Relay/Breaker/Fuse



## Flexible Expansion Capability

Support 16 in Parallel and 12 in Series  
Automatically Configure the Parallel Address and  
Assign Master and Slave  
Support High Voltage and Low Voltage Systems



## Application

Support C&I and Residential Scenarios

| Model                                 | IPX-51314SPT                          |
|---------------------------------------|---------------------------------------|
| <b>Main Parameters</b>                |                                       |
| Battery Type                          | LiFePO4                               |
| Nominal Voltage (V)                   | 51.2                                  |
| Nominal Capacity (Ah)                 | 314                                   |
| Nominal Energy (kWh)                  | 16                                    |
| Operating Voltage Rang (V)            | 48~56                                 |
| Max. Parallel & Series Number         | 16 in Parallel; 12 in Series          |
| Max. Continuous Charge Current (A)    | 200                                   |
| Peak Charge Current (A)               | 210A@3s                               |
| Max. Continuous Discharge Current (A) | 200                                   |
| Peak Discharge Current (A)            | 210A@1s                               |
| Recommended Depth of Discharge        | 90%                                   |
| Cycle Life of Battery Cell            | >6000@25°C, 0.5C/0.5C, 80%DOD, 80%EOL |
| Communication Port                    | CAN2.0/RS485                          |
| <b>General Parameters</b>             |                                       |
| Dimensions (D*W*H, mm)                | 235*450*855                           |
| Net Weight (kg)                       | 116                                   |
| Operating Temperature/Charge (°C)     | 0~+55                                 |
| Operating Temperature/Discharge (°C)  | -10~+55                               |
| Recommend Operating Temperature (°C)  | 15~+35                                |
| Storage Temperature (°C)              | 0~+35                                 |
| Humidity                              | 10%~95%                               |
| Altitude (m)                          | 2000                                  |
| Ingress Protection                    | IP20                                  |
| Cooling Method                        | Natural Cooling                       |
| Shell Material                        | Metal                                 |
| LED Display                           | 2 LED (Run and Alarm)                 |
| WiFi                                  | Yes                                   |
| Certification                         | IEC62619/UN38.3/MSDS/DGM              |
| <b>Protection</b>                     |                                       |
| Circuit Breaker                       | Yes                                   |
| Fuse                                  | Yes                                   |
| Voltage Protection                    | Yes                                   |
| Current Protection                    | Yes                                   |
| Temperature Protection                | Yes                                   |
| Short Circuit Protection              | Yes                                   |