

# High-voltage Household Energy Storage Lithium Battery

## ► Features

- A grade brand new prismatic LiFePO4 cells
- > 5000 cycles @80% DOD(25°C, 0.5C )
- Over charge, over discharge, over temperature, low temperature, over current and short circuit protection
- Easy and maintenance-free installation
- Cell balance function
- Stacked style
- Certificate: UN38.3, MSDS, IEC62619
- Battery cluster supports up to 8 parallel connections

## ► Electrical Characteristics

| Single-cluster model                | HS10.24KWH102.4V-P65F1                     |
|-------------------------------------|--------------------------------------------|
| Battery Type                        | LiFePO4                                    |
| Nominal Voltage (V)                 | 102.4                                      |
| Nominal Capacity (AH)               | 100                                        |
| Energy (WH)                         | 10240                                      |
| Continuous Discharge Current (A)    | 50                                         |
| Charge Cut-off Voltage (V)          | 115.2                                      |
| Discharge Cut-off Voltage (V)       | 83.2                                       |
| Max.Charge Current (A)              | 50                                         |
| Max.Discharge Current (A)           | 100                                        |
| Peak Discharge Current (A)          | 120@10S                                    |
| Recommend Discharge Current (A)     | 50                                         |
| Recommend Discharge Depth (%)       | 80                                         |
| Cycle Life                          | > 5000 cycles (25°C, 0.5C ) 90% DOD        |
| Communication                       | RS485 CAN                                  |
| Charge&Discharge Temperature ( °C ) | Charge: 0°C~+55°C / Discharge: -20°C~+60°C |
| Optimal Storage Temperature ( °C )  | 5°C ~ +35°C                                |
| Recommend Storage Humidity          | 20%~80%                                    |
| Dimensions (W*H*D) (mm)             | 750*600*195                                |
| Weight (Kg)                         | 94.1±0.5                                   |
| Certificate                         | UN38.3 MSDS IEC62619                       |
| IP Class                            | IP65                                       |

## ► Electrical characteristics

| Main control machine                       |  | HS100A800VS-P65F1PDU                   |
|--------------------------------------------|--|----------------------------------------|
| Main control machine operating voltage (V) |  | 150-1000                               |
| System operating voltage (V)               |  | 150-1000                               |
| Max.Charge Current (A)                     |  | 100                                    |
| Max.Discharge Current (A)                  |  | 100                                    |
| Peak Discharge Current (A)                 |  | 120@10S                                |
| Charge&Discharge Temperature (℃)           |  | Charge: 0℃~+55℃ / Discharge: -20℃~+60℃ |
| Optimal Storage Temperature (℃)            |  | 5℃ ~ +35℃                              |
| Recommend Storage Humidity                 |  | 20%~80%                                |
| Service life (Year)                        |  | 15+                                    |
| Dimensions (L*W*H) (mm)                    |  | 750×600×170                            |
| Weight (Kg)                                |  | 26.7±0.5                               |
| Transportation                             |  | UN38.3, MSDS, IEC62619                 |
| IP Class                                   |  | IP65                                   |

## ► Battery model

| Battery model           | HS20.48KWH204.8V2S-P65F1 | HS30.72KWH307.2V3S-P65F1 | HS40.96KWH409.6V4S-P65F1 | HS51.2KWH512V5S-P65F1 |
|-------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| Pack Mode               | 2s                       | 3s                       | 4s                       | 5s                    |
| Nominal Voltage (V)     | 204.8                    | 307.2                    | 409.6                    | 512                   |
| Nominal Capacity (AH)   | 100                      | 100                      | 100                      | 100                   |
| Energy (WH))            | 20480                    | 30720                    | 40960                    | 51200                 |
| Dimensions (L*W*H) (mm) | 750*600*587              | 750*600*757              | 750*600*927              | 750*600*1097          |
| Weight (Kg)             | 188.2±1                  | 282.3±1                  | 376.4±1                  | 470.5±1               |

| Battery model           | HS61.44KWH614.4V6S-P65F1 | HS71.68KWH716.8V7S-P65F1 | HS81.92KWH819.2V8S-P65F1 |
|-------------------------|--------------------------|--------------------------|--------------------------|
| Pack Mode               | 6s                       | 7s                       | 8s                       |
| Nominal Voltage (V)     | 614.4                    | 716.8                    | 819.2                    |
| Nominal Capacity (AH)   | 100                      | 100                      | 100                      |
| Energy (WH))            | 61440                    | 71680                    | 81920                    |
| Dimensions (L*W*H) (mm) | 750*600*1267             | 750*600*1437             | 750*600*1607             |
| Weight (Kg)             | 564.6±1                  | 658.7±1                  | 752.8±1                  |