

Lithium Ion Iron Phosphate LiFePO4





# **Unit Details**

### Cycle Life

Temperature: 77°-86°F (25-30°C) Charge, 1C CC to 58.4V,and CV to 200mA cut off Discharge, 1C DC discharge to 36.8V, 80% or more of 1st cycle capacity at 1C discharge of operation, cycles quantity not less than 2000 cycles. Remarks: Rest 10 min after charge and discharge

### Electrical

#### **Standard Charge**

Charging the cell initially with constant current at 1C and then with constant voltage at 58.4V (accuracy  $\pm$  0.05V) until charging current declines to 1C at 77°-86°F (25-30°C)

#### Standard Discharge

Discharging the cell with constant current at 1C till cut-off voltage at 36.8V. Temperature: 77°-86°F (25-30°C)

#### Initial Internal Impedance

This means AC impedance of the pack measured at 1KHz after half full charged. Initial Internal Impedance  $\leq$ 30m $\Omega$ 

#### **Initial Capacity**

The capacity means the discharge capacity of the battery, which is measured with discharge current of 1C with 36.8V cut-off voltage after the standard charge. Initial Capacity @95% normal capacity. Temperature: 77°-86°F (25-30°C)

#### **Charger Choice**

- Standard charger: 58.4V/100A
- Charging mode: CC/CV
- CC: charging current ≤ 100A
- CV: constant voltage 58.4V
- Charging cut off condition ≤ 200mA



Battery Type: LiFePO4 Nominal Voltage: 51.2V Nominal Capacity: 100Ah Internal Impedance:  $\leq 30m\Omega$ Nominal Charge Voltage: 58.4 ± 0.04V Discharge Cut-off Voltage: 36.8V Charge Current: 80 amps Max. Continue Discharge Current: 350A withstand 3s Charge Method: CC (constant charge) | CV (constant voltage) Cycle Life: After 2,000 cycles, capacity > 80% nominal capacity Weight: 126 lbs. (57Kg.) Size (L\*W\*H): 26.6" x 13.1" x 7.4" (676 x 333 x 187mm)

## **Operating Temperatures**

Operating Temperature Charge: 77-86 F (25-30

C)

Operating Temperature Discharge: 77 – 86 F

(25–30 C)

## Storage Temperature

Short: within one month -20~35 C 45~75%RH

Long term: above one month – 10~30 C,

45~75%RH

Relative Humidity: 65% ± 20%

\*\*\* Please note that these battery specifications are subject to change without notice.

