

Technology

- Lithium Ion Polymer BatteryLiFePO4-based CathodeCarbon-based Anode

Feature

- · High Structural Stability
- Long Life CycleMinimum Self-Discharge
- Wide Temperature Range

Product General Specification

Mechanical Characteristics

Model	
Length	
Width	
Thickness	
Weight	

F014 $216 \pm 1 \, \text{mm}$ (without terminal) $130 \pm 1 \, \text{mm}$ $7.1 \pm 0.2 \, \text{mm}$

F010 $216 \pm 1 \text{ mm}$ (without terminal) $90 \pm 1 \, \text{mm}$ $6.9 \pm 0.2 \, \text{mm}$ approx. 270g

Electrical Characteristics

Nominal Voltage
Nominal Capacity
AC Impedance (1 KHz)
Specific Energy
Energy Density

3.2 V 14.5 Ah $< 5 \,\mathrm{m}\Omega$ 100 Wh/Kg 220 Wh/L

approx.400 g

3.2 V 10.0 Ah $< 10 \, \text{m}\Omega$ 120 Wh/Kg 240 Wh/L

Operating Conditions

Charge Conditions:

Recommended Charge Method
Maximum Charge Voltage
Recommended Charge Current
Maximum Charge Current

CC/CV 3.65 V 0.5 C Current 1.0 C Current

CC/CV 3.65 V 0.5 C Current 1.0 C Current

Discharge Conditions:

Recommended Voltage Limit for Discharge Lower Voltage Limit for Discharge Recommended Discharge Current Maximum Discharge Current (Continuous) Maximum Discharge Current (Peak < 10 sec)

2.4 V 2.4 V 2.0 V 2.0 V up to 5 C Current up to 3 C Current 10 C Current 5 C Current 15 C Current 10 C Current

Operating Temperature: Recommended Charge Temperature Storage Temperature

-30 °C/+50 °C 0°C/+40°C -30 °C / + 50° C

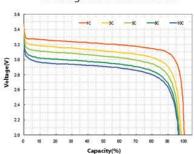
-30 °C/+50 °C 0 °C/+40 °C -30 °C/+50 °C

Cycle Life at 25 °C (1C Charge / 1C Discharge DOD100%) 2000 Cycles to 80% Nominal Capacity

2000 Cycles to 80% Nominal Capacity

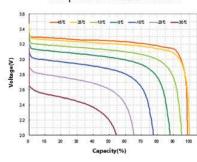
ePLB F014 Performance

Discharge Rate Characteristics



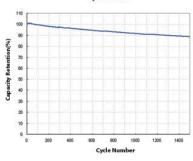
CHARGE : CC(1.0C)/CV(3.65 V to 0.05 C) at 25 C DISCHARGE : CC to 2.0V at 25 C

Temperature Characteristics



CHARGE:CC(1.0C)/CV(3.65V to 0.05C) at 25°C DISCHARGE: CC(1.0C) to 2.0V at various

Cycle Life



CHARGE : CC(1.0C)/CV(3.65V to 0.05C or 2.5hr) at 25°C DISCHARGE : CC(1.0C) to 2.0V at 25°C (DOD100%)