# ePLB F High Power Product



## **Technology**

Lithium Ion Polymer Battery
LiFePO4-based Cathode
Carbon-based Anode
High Power Density
Optimized for PHEV, EV

## **Product General Specification**

## **Mechanical Characteristics**

Model	F014
Length	222 ± 1 mm (excluding terminal)
Width	129 ± 1 mm
Thickness	7.1 ± 0.2 mm
Weight	approx. 383 g

#### **Electrical Characteristics**

Nominal Voltage	3.2 V
Nominal Capacity	14 Ah
AC Impedance (1 KHz)	< 5 mΩ
Specific Energy	115 Wh/Kg
Energy Density	230 Wh/L
Specific Power(D0D50%, 10sec)	2000 W/Kg
Power Density(D0D50%, 10sec)	3500 W/L

## **Operating Conditions**

Charo	ie Con	ditions

Recommended Charge Method	CC/CV
Maximum Charge Voltage	3.65 V
Recommended Charge Current	0.5 C Current

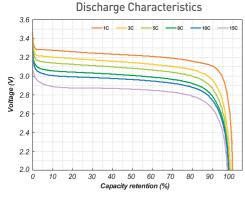
## Discharge Conditions:

Lower Voltage Limit for Discharge	2.0 V
Maximum Discharge Current (Continuous)	5 C Current
Maximum Discharge Current (Peak < 30 sec)	10 C Current

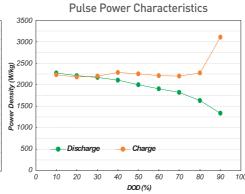
Operating Temperature :	-30°C / + 55°C
Recommended Charge Temperature	0°C/+40°C
Storage Temperature	-30°C/+55°C

Cycle Life at 25°C : {1 C Charge / 1 C Discharge, DOD100%}
3000 Cycles to 80% Nominal Capacity

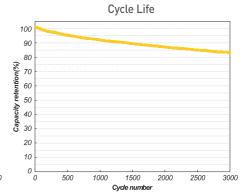
## **ePLB F014 Performance**



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



HPPC calculated from FreedomCAR Battery Test Manual



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

