High Power Product

ePLB H

Technology

- Lithium Ion Polymer Battery
- $LiMn_2O_4$-based Cathode
- Carbon-based Anode

Feature

- High Power Density
- Long Life Cycle
- Minimal Self-Discharge
- Wide Temperature Range

Product General Specification

Mechanical Characteristics

Model	H006
Length	216 ± 1mm (without terminal)
Width	130 ± 1mm
Thickness	7.2 ± 0.2 mm
Weight	approx. 292g

Electrical Characteristics

Nominal Voltage	3.8 V
Nominal Capacity	6.4 Ah
AC Impedance (1 KHz)	< 2 mΩ
Specific Energy (Pulse discharge/DOD50%)	2770 W/Kg
Energy Density (Pulse discharge/DOD50%)	3630 W/L

Operating Conditions

Charge Conditions :

Recommended Charge Method	CC/ CV
Maximum Charge Voltage	4.2 V
Recommended Charge Current	0.5 C Current
Maximum Charge Current	1.0 C Current

Discharge Conditions :

Recommended Voltage Limit for Discharge	3.0 V
Lower Voltage Limit for Discharge	2.75 V
Recommended Discharge Current	up to 2 C Current
Maximum Discharge Current (Continuous)	30 C Current
Maximum Discharge Current (Peak < 10 sec)	100 C Current

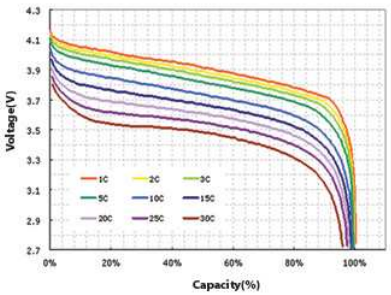
Operating Temperature :

Recommended Charge Temperature	-30 °C / + 50°C 0 °C / + 40 °C
Storage Temperature	-30 °C / + 50°C

Cycle Life at 25 °C (1C Charge / 1C Discharge DOD100%)	1000 Cycles to 80% Nominal Capacity

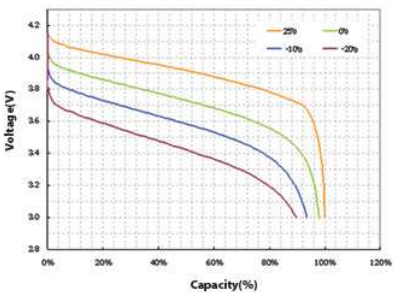
ePLB H006 Performance

Discharge Rate Characteristics



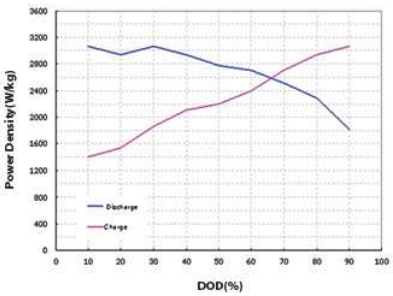
CHARGE : CC(0.5C)/CV(4.2V to 0.1C) at 25°C
DISCHARGE : CC to 2.7V at 25°C

Temperature Characteristics



CHARGE : CC(0.5C)/CV(4.2V to 0.1C) at 25°C
DISCHARGE : CC(0.5C) to 3.0V at various temperature

HPPC



USABC Test Manual