



PC046067M

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Korea PowerCell, Inc.
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Confidential

1. Applications & Specification

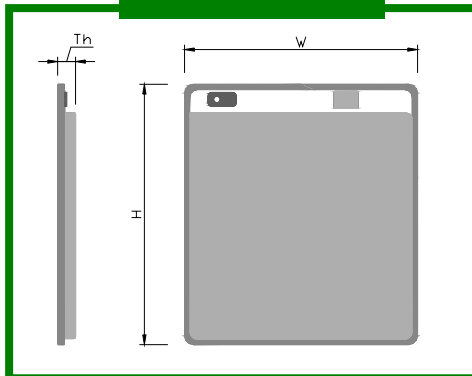
Applications



Specification

Spec.	Nominal Voltage	3.6V
	Dimensions (W*H*Th / mm)	60 * 67 * 4.6
	Weight	Approx. 50g
Discharge Characteristics	At 25°C	
	0.2C	1750mAh
	0.5C	1720mAh
Discharge Characteristics	At -20°C	
	0.2C	1220mAh
Discharge Characteristics	0.5C	1000mAh
	Cycle Life	0.5C/0.5C

Dimension



2. Safety Test – 1

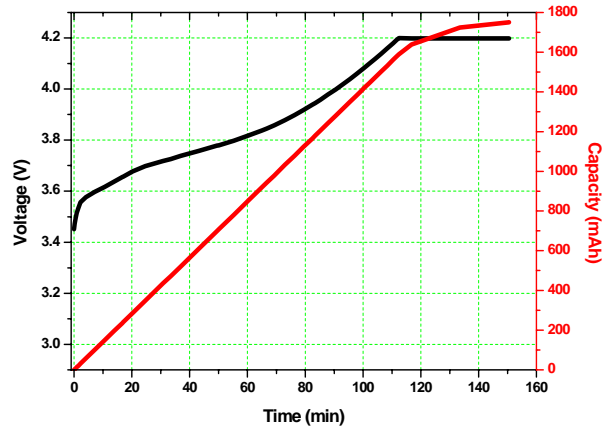
Test Item	Test Method	Cell Condition	Test Standard	Criteria	PC046067M
Short Circuit	A Cell is to be short-circuited by connecting the positive and negative terminals of the battery with copper wire having a maximum resistance load of 50mΩ for 6 hours.	Fully Charged	UL 1642	No explosion, No fire	PASS
Crushing Test	A cell is to be crushed between two flat surface. The crushing is to be continued until a pressure reading of 2500 psig(17.2MPa) is reached on the hydraulic ram, applied force of 3000 pounds	Fully Charged	UL 1642	No explosion, No fire	PASS
Overcharge Test	Charging the Cell up to 250% of its Nominal capacity at 25°C for 2.5 hours.	Fully Charged	UL 1642	No explosion, No fire	PASS

3. Safety Test – 2

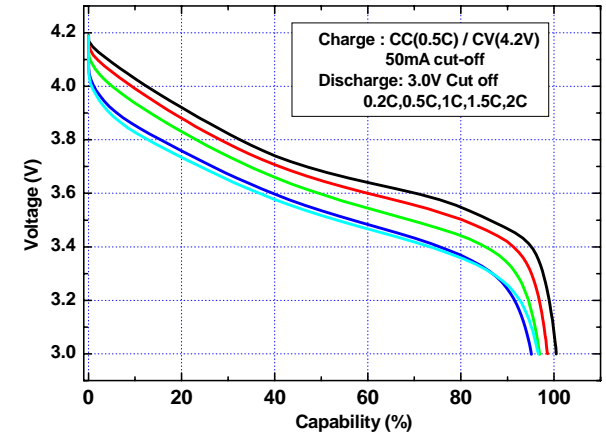
Test Item	Test Method	Cell Condition	Test Standard	Criteria	PC046067M
Nail Penetration Test	A stainless steel nail having a diameter of 4.0 mm is punched through the cell until the nail has passed through the opposite side of the cell.	Fully Charged	UL 1642	No explosion, No fire	PASS
Hot Box Test	A cell is to be heated in a gravity convection oven. The temperature of the oven is to be raised at a rate of $5\pm 2^{\circ}\text{C}$ per minute to a temperature of $150\pm 2^{\circ}\text{C}$ and remain for 10 minutes at the temperature before the test is discontinued.	Fully Charged	UL 1642	No explosion, No fire	PASS

4. Summarized Data

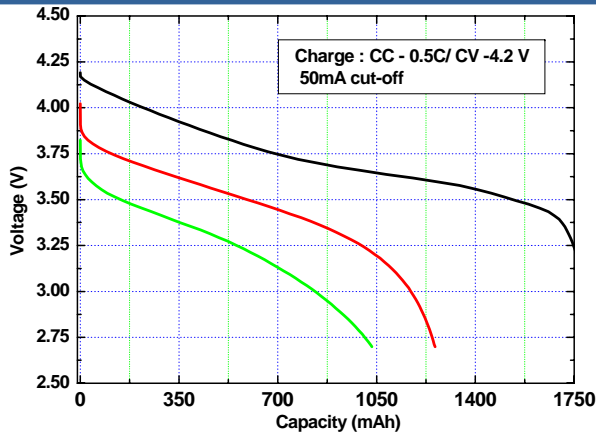
Charge Characteristics



Discharge Characteristics



Discharge Characteristics at -20°C



Cycle Life

