

**SPB451835 (Rechargeable Li-ion Polymer Battery )**

Date

2006.06.05

**To :** \_\_\_\_\_

## **SPECIFICATION OF PRODUCT**

**Rechargeable Li-ion Polymer Battery**  
**Model : SPB451835 (200mAh)**

### **SAEHAN-ENERTECH. INC.**

710-3, Yongtan-Dong , Chung-Ju , Chung-buk , Korea  
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## 1. Nominal Specifications

	Item	Specification
1	Battery Type	Rechargeable Li-ion Polymer Battery
2	Model	SPB451835
3	Nominal Capacity	200mAh (0.2C Discharge)
4	Nominal Voltage	3.7V
5	Energy Density	Volume 261 Wh/L
		Weight 160 Wh/kg
6	Charging Mode	CC-CV (constant voltage with limited current)
7	Charging Current	Standard : 100mA (0.5C) Rapid : 200mA (1.0C)
8	Charging Voltage	4.2V
9	Max. Charge Current	200 mA
10	Max. Discharge Current	400 mA (2.0C)
11	Cell Dimension (mm)	Thickness : Max. 4.5 mm . (fully charged cell) Width : 18 +1.0/-0.5 mm Height : 35 +0.3/-0.5 mm
12	Cell Weight	4.6g or less
13	AC Impedance (at 1kHz)	110mΩ or less
14	Operating Temperature	Charge : 0 to 45℃ Discharge: -20 to 60℃
15	Storage Temperature	-10 ~ 40℃ (Within 6 months)
16	Overcharge Test	NE, NF (1A, 5V)
17	External Short-circuit Test	NE, NF (4.2V, 100mΩ )
18	Heating Test	NE, NF (130℃ , 60min)
19	Crush	NE, NF (13kN force)

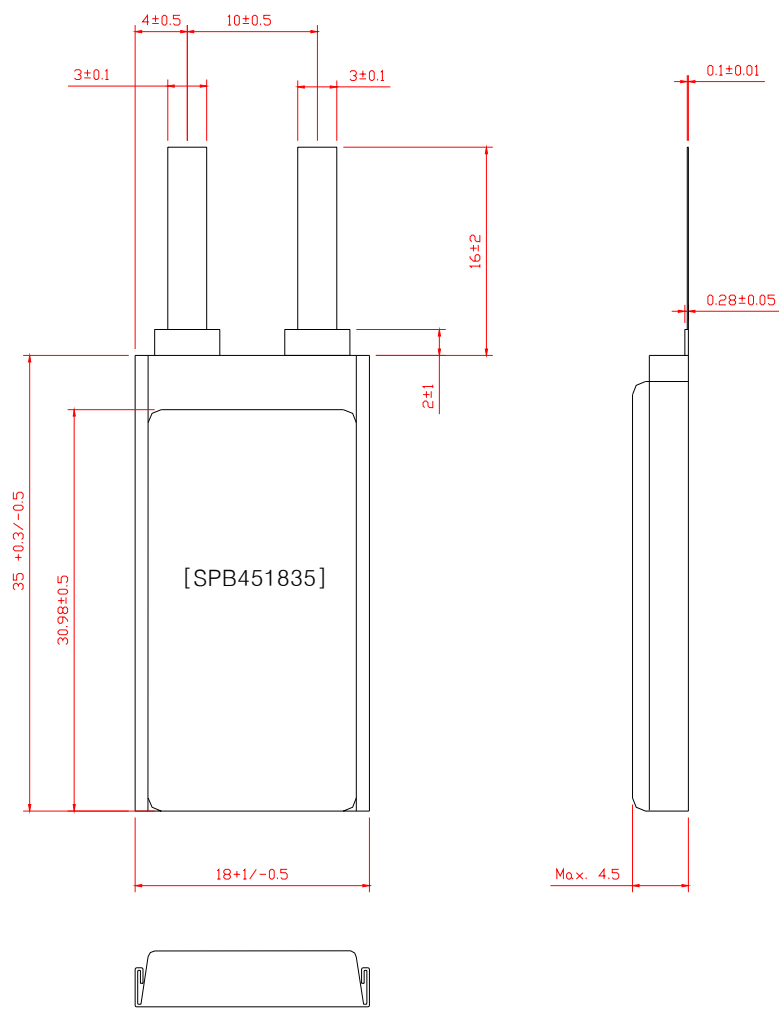
**2. Out View drawing for SPB451835**

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No.	Description of Change	Remark
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1. Spec.

Nominal Capacity	200mAh
Nominal Voltage	3.7V
Weight	less than 4.6g
Energy	Volume 261Wh/l
Density	Weight 160Wh/kg
AC Impedance(1kHz)	less than 110mΩ



<b>SAEHAN</b> SAEHAN ENERTECH INC.			
Dwg. Name	SPB451835 Cell	Dwg. Date	2006.06.05
Dwg. No.	1-451835-0001	Rev. Date	2006.06.05
Dwg. No.	1-451835-0001	Scale	2 : 1
Rev. No.	0 (1) 2 3 4 5	Unit	mm
Item	Drawing	Check	Approval
Sign.	T.Y.PARK	J.K.JEONG	Y. J. KIM