

**SPB393450 (Rechargeable Li-ion Polymer Battery )**

Date

2006.06.05

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

## **SPECIFICATION OF PRODUCT**

**Rechargeable Li-ion Polymer Battery**  
**Model : SPB393450 (630mAh)**

### **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	SPB393450
3	Nominal Capacity	630mAh (0.2C Discharge)
4	Nominal Voltage	3.7V
5	Energy Density	Volume 351 Wh/L
		Weight 185 Wh/kg
6	Charging Mode	CC-CV (constant voltage with limited current)
7	Charging Current	Standard : 315mA (0.5C) Rapid : 630mA (1.0C)
8	Charging Voltage	4.2V
9	Max. Charge Current	630 mA
10	Max. Discharge Current	1260mA (2.0C)
11	Cell Dimension (mm)	Thickness : 3.9 +0.0/-0.2 mm . (fully charged cell) Width : 34 +0.0/-2.0 mm Height : 50 +2.0/-0.0 mm
12	Cell Weight	12.6 g or less
13	AC Impedance (at 1kHz)	80mΩ 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)

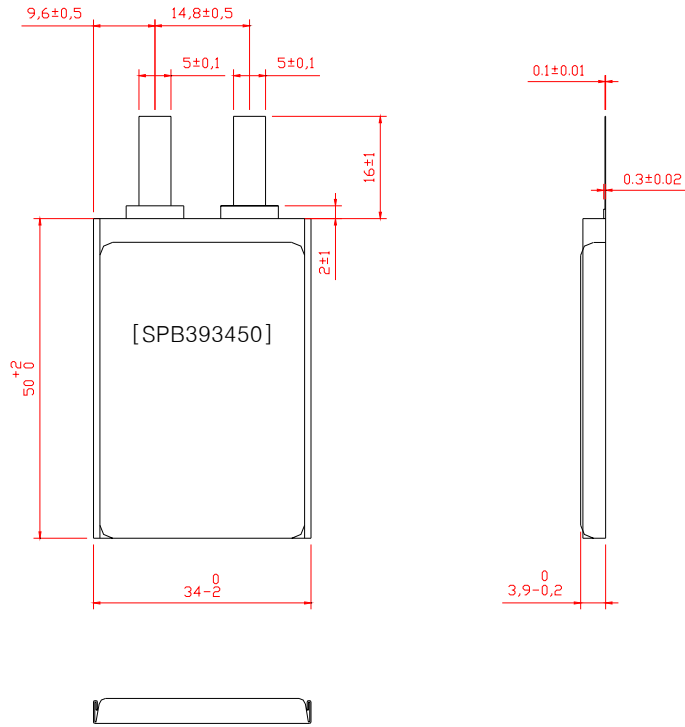
**2. Out View drawing for SPB393450**

This drawing is property of Saeahan Enertech Inc.. Use or copy of this drawing without proper permission from the appropriate technical-document managing department is prohibited.

1. Spec.

Nominal Capacity	630mAh	
Nominal Voltage	3.7V	
Weight	less than 12.6g	
Energy	Volume	351Wh/l
Density	Weight	185Wh/kg
AC Impedance(1kHz)	less than 80mΩ	

No.	Description of Change	Remark
△		
△		
△		



<b>SAEHAN ENERTECH INC.</b>			
Dwg. Name	SPB393450 Cell	Dwg. Date	2006.06.05
		Rev. Date	2006.06.05
Dwg. No.	1-393450-0001	Scale	1 : 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