**To :** _____

# SPECIFICATION OF PRODUCT

**Rechargeable Li-ion Polymer Battery**
**Model : SPB383040 (390mAh)**

## SAEHAN-ENERTECH. INC.

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

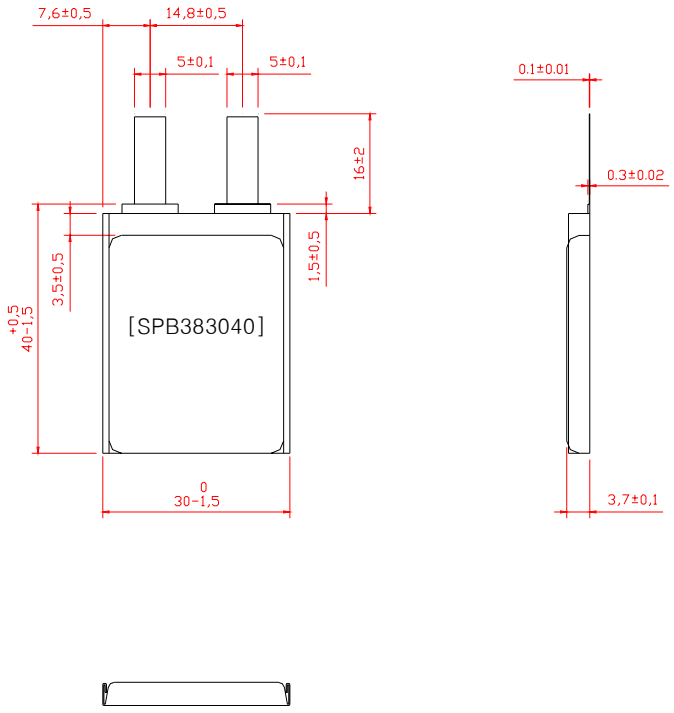
| | Item | | Specification |
|---|---|---|---|
| 1 | Battery Type | | Rechargeable Li-ion Polymer Battery |
| 2 | Model | | SPB383040 |
| 3 | Nominal Capacity | | 390mAh (0.2C Discharge) |
| 4 | Nominal Voltage | | 3.7V |
| 5 | Energy Density | Volume | 316 Wh/L |
| | | Weight | 169 Wh/kg |
| 6 | Charging Mode | | CC-CV<br>(constant voltage with limited current) |
| 7 | Charging Current | | Standard : 195mA (0.5C)<br>Rapid : 390mA (1.0C) |
| 8 | Charging Voltage | | 4.2V |
| 9 | Max. Charge Current | | 390 mA |
| 10 | Max. Discharge Current | | 780 mA (2.0C) |
| 11 | Cell Dimension (mm) | | Thickness : 3.7 +1.0/-1.0 mm . (fully charged cell)<br>Width : 30 +0.0/-1.5 mm<br>Height : 40 +0.5/-1.5 mm |
| 12 | Cell Weight | | 8.5g or less |
| 13 | AC Impedance (at 1kHz) | | 70mΩ or less |
| 14 | Operating Temperature | | Charge : 0 to 45℃<br>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 (150℃, 10min) |
| 19 | Crush | | NE, NF (13kN force) |

## 2. Out View drawing for SPB383040

| No. | Description of Change | Remark |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |

1. Spec.

| | | |
|---|---|---|
| Nominal Capactiy | | 390mAh |
| Nominal Voltage | | 3.7V |
| Weight | | less than 8.5g |
| Energy Density | Volume | 316Wh/l |
| | Weight | 169Wh/kg |
| AC Impedance(1kHz) | | less than 70mΩ |




| SAEHAN ENERTECH INC. | | | |
|---|---|---|---|
| Dwg. Name | SPB383040 Cell | Dwg. Date | 2006.06.05 |
| | | Rev. Date | 2006.06.05 |
| Dwg. No. | 1-383040-0001 | 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 |