



# Pouch-Cell

## HCB502030



Thickness: 5.0 / Width: 20.0 / Length: 30.0  
Dimension (Unit: mm)

### Advantage

- **Highly Flexible and Customizable** (size and model can be customized, square ultra-thin structure, maximizing the use of battery compartment)
- **Better Safety** (soft aluminum plastic film shell, safer than ordinary steel and aluminum shell batteries)
- **Higher Capacity** (compared with steel and aluminum prismatic batteries of the same size, the capacity can be increased by 5%~15%)
- **Light Weight, High Specific Energy** (mass specific energy can reach 250W/kg)

### Application

- Smart Wearable Devices
- GPS Tracker
- Portable Power Bank
- Portable Medical Devices
- Electric Two Wheeler

### Electrical Performance Parameters

**Product Series:** HCB Li-Po Pouch-Cell

**Nominal Capacity** 250 mAh

**Nominal Voltage** 3.7 V

**Discharge Cut-off Voltage** 2.5 V

**Charging Cut-off Voltage** 4.2 V

**Cycle life (0.2C 100%DoD)**  $\geq 300$

**Maximum Continuous Discharge Current**  
50 mA

**Maximum Pulse Discharge Current**  
250 mA

**Maximum Charging Current**  
250 mA

**Internal Resistance (1kHz@RT)**  
 $\leq 250 \text{ m}\Omega$

**Storage Environment (Recommended)**

$25 \pm 3^\circ\text{C}$   $65 \pm 20\% \text{ RH}$

**Operating Temperature**

**Charging Temperature**  $0^\circ\text{C} \sim +40^\circ\text{C}$

**Discharge temperature**  $-20^\circ\text{C} \sim +60^\circ\text{C}$