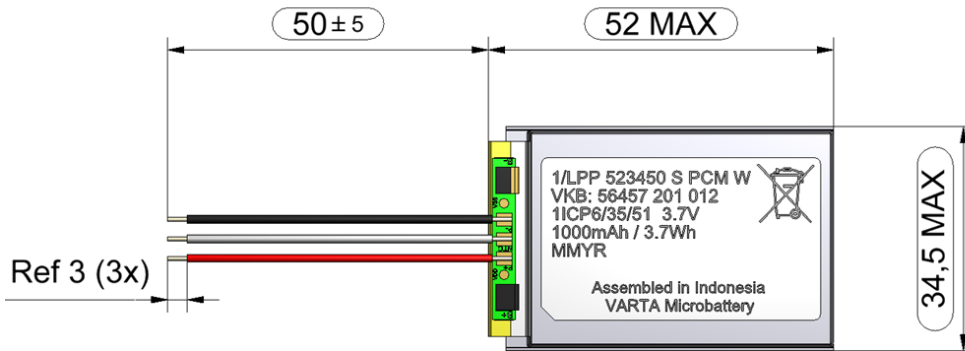


# Product Information



1/LPP 523450 S PCM W  
 ▶ VKB 56457 201 012



1/LPP 523450 S PCM W  
 VKB: 56457 201 012  
 11CP6/35/51 3.7V  
 1000mAh / 3.7Wh  
 MMYR

Assembled in Indonesia  
 VARTA Microbattery

MM ▶ month two digits  
 Y ▶ year one digit  
 R ▶ week one digit

## 1. GENERAL

Battery Pack incl. safety circuit & wires

- Cell ▶ LPP 523450 S
- PCM ▶ Yes
- NTC ▶ 10kΩ ±1%; B-value 3380K
- ID ▶ None
- Configuration ▶ 1S layflat
- Weight ▶ appr. 20g

## 2. ELECTRICAL SPECIFICATION

- Rated Capacity ▶ 950mAh min., 1000mAh typical
- Nominal Voltage ▶ 3.7V
- Watt-Hour Rating ▶ 3.7Wh
- Charging Method ▶ Constant Current + Constant Voltage
- Max. Charge Voltage: ▶ 4.2V
- Max. Continuous Charge Current: ▶ 1000mA (limited by cell DS)
- Rec. Charge Cut Off: ▶ 10mA or timer 3.5h
- Max. Continuous Discharge Current: ▶ 2000mA (limited by cell DS)
- Rec. Discharge Cut Off: ▶ 3V
- Internal Impedance: ▶ approx. 100mΩ
- Expected Cycle Life @ (1C/1C) @ 23 ±5°C ▶ 500 cycles ≥ 800mAh

## CELL PROTECTION

- Overcharge Detection ▶ 4.275V ±25mV (0.7 to 1.3sec. delay, release 4.275V ±25mV)
- Overdischarge Detection: ▶ 2.3V ±58mV (14 to 26msec. delay, resume 2.3V ±58mV)
- Overcurrent Detection ▶ 2A to 4.5A (8 to 16msec. delay)

## 3. AMBIENT CONDITIONS

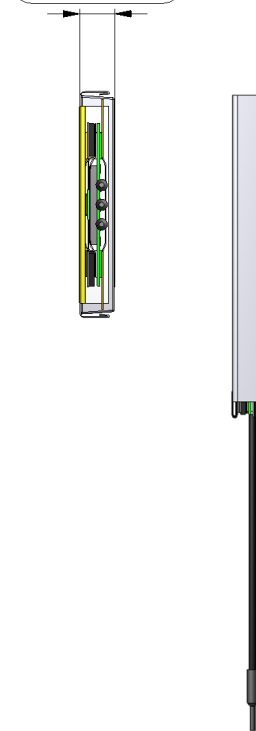
- Temperature Range
  - Charge ▶ 0 to +45°C
  - Discharge ▶ -20 to +60°C
  - Storage
    - ▶ 1 year at -20 to +30°C >80%
    - ▶ 3 months at -10 to +45°C >80%
    - ▶ 1 month at -20 to +60°C >80%
- Humidity ▶ 65 ± 20%RH

## 4. ENVIRONMENTAL AND SAFETY

Please follow VARTA Handling and Safety Precautions for Lilon & LiPolymer.  
 The cell used is a UL recognized component according to UL1642 and UN 38.3 certified.  
 The cell is IEC 62133 edition 2 certified.  
 This battery meets the requirements of Battery Directives and the battery parts are RoHS-Compliant.

Minimum Order Quantity: 600 pcs / Order Multiples: 120 pcs - Product for OEM customers only!

5,3 MAX



## Circuit Diagram

