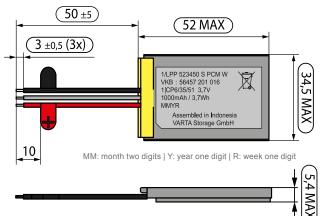
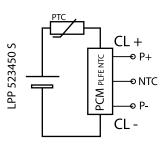
# **VARTA**

# 3.7 V | 1,000 mAh nominal | 3.7 Wh | VKB: 56457 201 016



#### **Circuit Diagram**



**↑**|≶|

After cycling, fully charged

#### GENERAL (Battery pack incl. safety circuit and wires)

Wire AWG24 UL1007 (red wire (+), white wire (NTC), black wire (-))

Cell LPP 523450 S

PCM Yes

NTC 10 k $\Omega$  ± 1 %; B-value 3,380 K

IDNoneConfiguration1S layflatWeightApprox. 20 g

#### **ELECTRICAL SPECIFICATION**

Nominal voltage 3.7 V

Rated capacity at (0.5 C / 0.2 C), 23 °C  $\pm$  5 °C  $\mid$  950 mAh min., 1,000 mAh nominal

Watt-hour rating 3.7 Wh

Charging method Constant current + constant voltage

Max. charge voltage 4.2 V

Max. continuous charge current 1,000 mA (limited by cell)
Rec. charge cut off 10 mA or timer 3.5 h

Max. continuous discharge current 2,000 mA (limited by PCM)

Rec. discharge cut off 3 V

Internal impedance Approx.  $100 \text{ m}\Omega$ 

Exp. cycle life at (1.0 C / 1.0 C), 23 °C  $\pm$  5 °C  $\geq$  500 cycles  $\geq$  80 %

### **CELL & BATTERY PROTECTION**

Overcharge detection 4.275 V  $\pm$  0.025 V (0.7 sec. to 1.3 sec. delay, release 4.275 V  $\pm$  0.025 V) Overdischarge detection 2.3 V  $\pm$  0.058 V (14 msec. to 26 msec. delay, resume 2.3 V  $\pm$  0.058 V)

Overcurrent detection 2.0 A to 4.5 A (8 msec. to 16 msec. delay)

#### **ENVIRONMENTAL CONDITIONS**

Charge  $\begin{array}{c} \text{0 °C to +45 °C} \\ \text{Discharge} \end{array}$   $\begin{array}{c} \text{-10 °C to +60 °C} \\ \end{array}$ 

Storage 1 month at -20 °C to +60 °C  $\geq$  80 %

3 months at -20 °C to +45 °C  $\geq$  80 % 1 year at -20 °C to +30 °C  $\geq$  80 %

Humidity 0 to 85 RH %

## **SAFETY CERTIFICATIONS**

Please follow VARTA handling and safety precautions for Lilon & LiPolymer.

The cell used is a UL recognized component according to UL1642 and IEC62133 ed.2 certified.

The battery meets the requirements of battery directives and the battery parts are RoHS-compliant.

The battery is certified according to IEC62133 ed. 2 and UN38.3.

