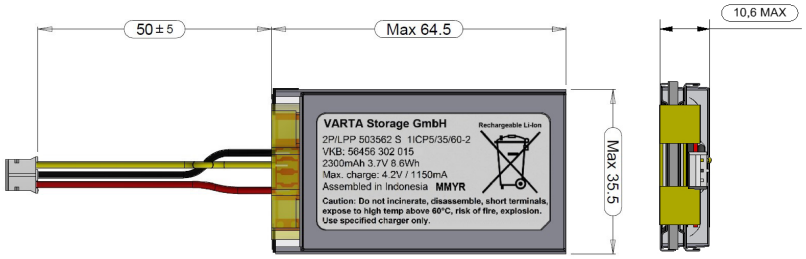
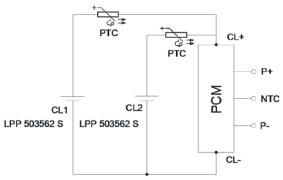
2P/LPP 503562 S PCM W

3.7 V | 2,400 mAh nominal | 8.6 Wh | VKB: 56456 302 012 (SoC 50%, EOL), 56456 302 015(SoC 30%)



MM: month two digits | Y: year one digit | R: week one digit

Circuit Diagram



GENERAL (Battery pack incl. safety circuit and wires with connector)

Wire	AWG24 UL1007 (red wire (+), yellow wire (NTC), black wire (-))
Connector	JST connector (housing: PHR-03, terminal: SPH-002T-P0.5S)
Cell	LPP 503562 S
PCM	Yes
NTC	10 kΩ ± 1 %; B-value 3,435 K ± 1 %
ID	None
Configuration	2P stack up
Weight	Approx. 45 g

ELECTRICAL SPECIFICATION

Nominal voltage	3.7 V
Rated capacity at (0.5 C / 0.2 C), 23 °C ± 5 °C	2,300 mAh min., 2,400 mAh nominal
Watt-hour rating	8.6 Wh
Charging method	Constant current + constant voltage
Max. charge voltage	4.2 V
Max. continuous charge current	1,150 mA (limited by cell)
Rec. charge cut off	23 mA or timer 3.5 h
Max. continuous discharge current	2,000 mA (limited by connector)
Rec. discharge cut off	3V
Internal impedance	Approx. 90 mΩ
Exp. cycle life at (1.0 C / 1.0 C), 23 °C ± 5 °C	≥ 500 cycles ≥ 70%

CELL & BATTERY PROTECTION

Overcharge detection	4.3 V ± 0.02 V (0.8 sec. to 1.2 sec. delay, resume 4.1 V ± 0.03 V)
Overdischarge detection	2.4 V ± 0.035 V (76.8 msec. to 115.2 msec. delay, at remove loader and charging current)
Overcurrent detection	3.2 A to 5.2 A (9.6 msec. to 14.4 msec. delay at discharge)

ENVIRONMENTAL CONDITIONS

Charge	0 °C to +45 °C
Discharge	-10 °C to +60 °C
Storage	1 month at -20 °C to +60 °C ≥ 80 %
	3 months at -20 °C to +45 °C ≥ 80 %
	1 year at -20 °C to +30 °C ≥ 80 %
Humidity	0 to 85 RH %

SAFETY CERTIFICATIONS

Please follow VARTA handling and safety p.recautions for LiIon & LiPolymer.

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

The battery meets the requirements of battery directives and the battery parts are RoHS-compliant and is UN 38.3 certified.

The battery is certified according to UN38.3, IEC62133 ed.2, IEC62133-2 and UL2054.

Minimum order quantity: 624 pcs / Order multiples: 48 pcs - Product for OEM customers only! Please note there is no difference between the two VKBs except for the State of Charge.

VARTA Storage GmbH - Rev No. 2 0920 715415, 803566