



2P/LPP 503562 S PCM WC

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

VARTA Storage GmbH - Rev No. 1- 0325

Distributed by:



WW = Calendar Week | YY = Year

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	3 V
Internal impedance	Approx. 90 mΩ
Exp. cycle life at (1.0 C / 1.0 C), 23 °C ± 5 °C	≥ 500 cycles ≥ 70 %

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

CELL&BATTERY PROTECTION

Overcharge detection	4.28 V ± 0.040 V (50 to 150 msec. delay, resume 4.08 ± 0.050 V, resume 4.280 ± 0.050 V @ discharging)
Overdischarge detection	2.5 V ± 0.08 V (10 to 40 msec. delay, resume 3.00 ± 0.080 V, resume 2.500 ± 0.080 V @ charging)
Overcurrent detection	2.8A to 7.5A (5 to 15 msec. delay)

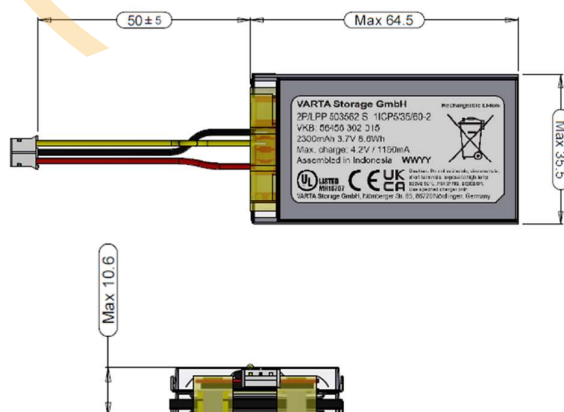
ENVIROMENTAL CONDITIONS

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 precautions for Lilon & LiPolymer. The cell used is a UL recognized component according to UL1642 and IEC 62133-2. The battery meets the requirements of battery directives and the battery part: are RoHS-compliant. The battery is certified according to IEC6321 33-2 and UN38.3

Minimum order quantity: 624 pcs / Order multiples: 48 pcs - Product for OEM customers only!



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