

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 - 0626

Distributed by:



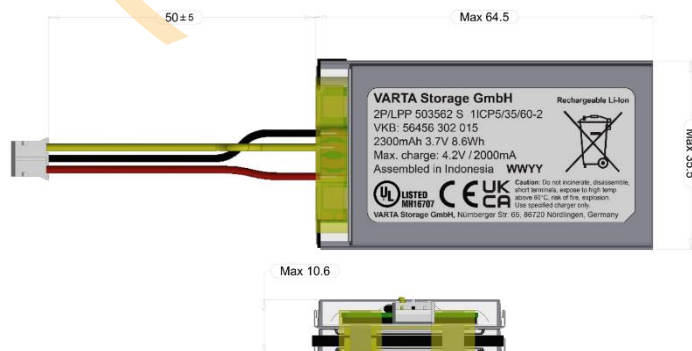
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WW = Calendar Week | YY = Year

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	2000mA (limited by connector)
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 4.280 ± 0.050 V @Discharging)
Overdischarge detection	2.5 V ± 0.08 V (10 to 40 msec. delay, resume 2.500 ± 0.080 V @Charging)
Overcurrent detection	2.8 A to 7.2 A (5 to 15 msec. delay)

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	65 ± 20 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 parts are RoHS-compliant. The battery is certified according to IEC62133-2 and UN38.3

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

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

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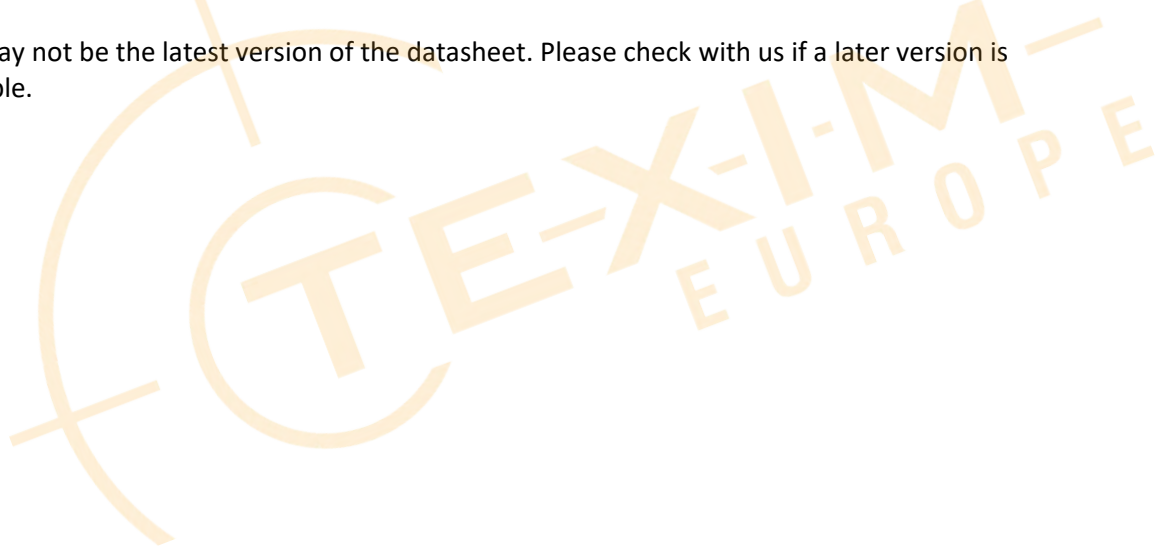
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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