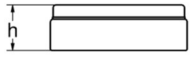
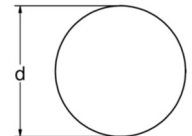



Data Sheet – CP1250 A4X (CoinPower®)¹

	Type Designation Type Number VKB Number Cell Code System	CP1250 A4X 63121 63121 101 501 INR1250 Graphite – layered metal oxide (LiNi _x Mn _y Co _z O ₂)
	UL Recognition WERCSmart ID	MH13654 1703758
	Nominal Voltage [V] Typical Capacity [mAh] Nominal Capacity [mAh] Minimum Capacity C [mAh]	3.7 (average) (3,62V min) 64 (at 0.1C from 4.3 V to 3.0 V at RT) 62 (at 0.2C from 4.3 V to 3.0 V at RT) 60 (at 0.2C from 4.3 V to 3.0 V at RT)
	Dimensions [mm] (without Tags) Diameter Height Weight. approx [g]	12.1 +0.0/-0.3 5.0 +0.1/-0.1 1.6 +0.2/-0.2
	Charging Method Charge Voltage [V]	Constant Current + Constant Voltage 4.30 ± 0.05
Initial Charge Current [mA]	Standard Charge ² : 30 Fast Charge ² : 60 Rapid Charge ³ : 120	
Charging Cut-Off (a) or (b) a) by time [h]	Standard Charge: 5 Fast/Rapid Charge: 3	
b) by min current [mA]	1.2	
Discharge Cut-Off Voltage [V]	3.0	
Max. Pulse Discharge Current [mA]	180 @ 2s	
Max. Continuous Discharge Current [mA]	120	
Operating Temperature [°C]	Charge: 0 to 45 Discharge: -20 to 60	
Cell Surface Temperature [°C]	60	
Storage Temperature	1 Year at -20 to 20 °C > 90	
Capacity Recovery Rate⁴ [%]	3 Month at -20 to 45 °C > 90	
	1 Month at -20 to 60 °C > 85	
Impedance Initial [Ω]	< 0.5 @ 1kHz	
Cycle Life 0.5C/0.5C, 20 °C⁵ [Cycles]	>500 (> 80% of C _{ini})	
Safety	UN 38.3 passed relevant tests acc. IEC 62133 passed	
Internal Approval		
Overcharge Test (4.8V, 3C, 12h)	passed	

¹ Recommendations regarding Charging/Discharging and Safety (cf. Handling Precautions/Advanced Product Information) have to be accepted. Cell must not be used without external safety electronics (PCM – Protection Circuit Module)! The CoinPower cell may exclusively be used for the intended purpose. For medical applications please contact VARTA Microbattery. This product is protected by patents, please see: www.varta-aq.com/patents

² "CoinPower A4-Version Charging Document" must be observed.

³ "CoinPower A4-Version Charging Document" must be observed. Max. charging voltage: 4.00V ± 0.05V; min. charging temperature: 20°C.

⁴ After storage at initial cell voltage of 3.6 to 3.7 V / cell

⁵ typical values

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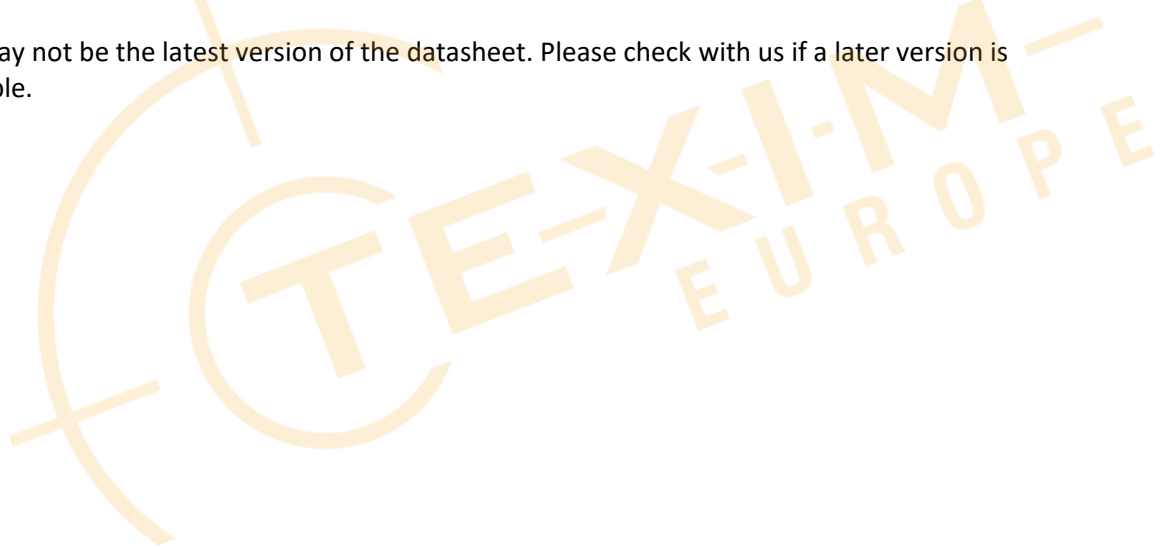
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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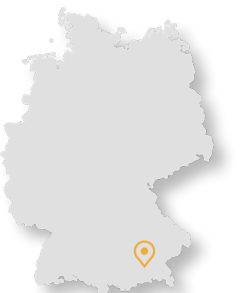
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