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Preliminary Data Sheet – CP1454 A4X (CoinPower®)¹

Type Designation	CP1454 A4X
Type Number	63145
VKB Number	63145 301 551
Cell Code	INR1454
System	Graphite – layered metal oxide (LiNi _x Mn _y Co _z O ₂) MH13654
UL Recognition	
Nominal Voltage [V]	3.7 (average)
Typical Capacity [mAh]	111 (at 0.1C from 4.3 V to 3.0 V at RT)
Nominal Capacity [mAh]	108 (at 0.2C from 4.3 V to 3.0 V at RT)
Rated Capacity C [mAh]	105 (at 0.2C from 4.3 V to 3.0 V at RT)
Dimensions [mm] (without Tags)	
Diameter	14.1 +0.0/-0.3
Height	5.4 +0.2/-0.1
Weight. approx [g]	2.4 +0.2/-0.2
Charging Method	Constant Current + Constant Voltage
Charge Voltage [V]	4.30 ± 0.05
Initial Charge Current [mA]	Standard Charge ² : 52.5 Fast Charge ² : 105 Rapid Charge ³ : 210
Charging Cut-Off (a) or (b)	
a) by time [h]	Standard Charge: 3.5 Fast/Rapid Charge: 2
b) by min current [mA]	2.2
Discharge Cut-Off Voltage [V]	3.0
Max. Pulse Discharge Current [mA]	330 @ 2s
Max. Continuous Discharge Current [mA]	220
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	passed
Overcharge Test (4,8V, 3C, 12h)	

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-ag.com/patents

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

³ "CoinPower A4-Version Charging Document" must be observed. Max. charging voltage: 4.05V ± 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

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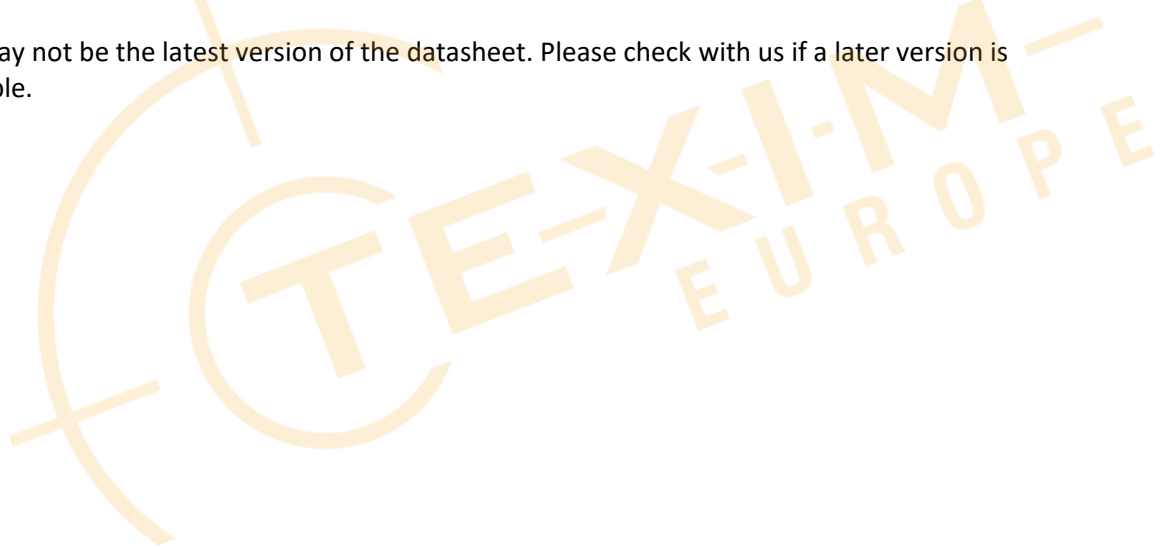
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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