



Data Sheet CoinPower® CP1654 A4X

Preliminary Data Sheet - CP1654 A4X (CoinPower®)¹

Type Designation Type Number VKB Number Cell Code **System**

UL Recognition

Nominal Voltage [V]

Typical Capacity [mAh] Nominal Capacity [mAh] Rated Capacity C [mAh]

Dimensions [mm] (without Tags)

Diameter Height

Weight. approx [g]

VARTA

Charging Method Charge Voltage [V]

Initial Charge Current [mA]

Charging Cut-Off (a) or (b)

a) by time [h]

b) by min current [mA]

Discharge Cut-Off Voltage [V]

Max. Pulse Discharge Current [mA]

Max. Continuous Discharge Current [mA]

Operating Temperature [°C]

Cell Surface Temperature [°C]

Storage Temperature

Capacity Recovery Rate⁴ [%]

Impedance Initial $[\Omega]$

Cycle Life 0.5C/0.5C, 20 °C⁵ [Cycles]

Safety

Internal Approval

CP1654 A4X

63165

63165 401 511

INR1654

Graphite - layered metal oxide

 $(LiNi_xMn_yCo_zO_2)$ MH13654

3.7 (average)

149 (at 0.1C from 4.3 V to 3.0 V at RT) 145 (at 0.2C from 4.3 V to 3.0 V at RT)

140 (at 0.2C from 4.3 V to 3.0 V at RT)

16.1 +0.0/-0.3

5.4 +0.2/-0.1

3.1 + 0.2 / -0.2

Constant Current + Constant Voltage

 4.30 ± 0.05

Standard Charge²: 70 Fast Charge²: 140 Rapid Charge³: 280

Standard Charge: 3.5 Fast/Rapid Charge: 2

3

3.0

435 @ 2s

290

Charge: 0 to 45 -20 to 60

Discharge:

60

1 Year 3 Month

at -20 to 20 °C > 90 at -20 to 45 °C > 90

1 Month at -20 to 60 °C > 85

< 0.4 @ 1kHz

>500 (> 80% of Cini)

UN 38.3 passed

relevant tests acc. IEC 62133 pending

Overcharge Test (4.8V, 3C, 12h) pending

Date of Issue: 2023-03-22

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/patents² "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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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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