

Data Sheet CoinPower® CP1254 A4X

Data Sheet - CP1254 A4X (CoinPower®)1

Type Designation Type Number VKB Number Cell Code System

UL Recognition

Nominal Voltage [V]

Charge Voltage [V]

Typical Capacity [mAh]

Nominal Capacity [mAh]

Rated Capacity C [mAh]

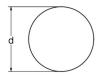
CP1254 A4 63125 63125 501 513 INR1254

Graphite - layered metal oxide

(LiNi_xMn_yCo_zO₂) MH13654

3.7 (average)

77 (at 0.1C from 4.3 V to 3.0 V at RT) 74 (at 0.2C from 4.3 V to 3.0 V at RT) 70 (at 0.2C from 4.3 V to 3.0 V at RT)



Dimensions [mm] (without Tags)

 Diameter
 12.1 +0.0/-0.3

 Height
 5.4 +0.2/-0.1

 Weight. approx [q]
 1.8 +0.2/-0.2

Weight. approx [g]
Charging Method

Constant Current + Constant Voltage

35

70

 4.30 ± 0.05

Initial Charge Current [mA] Standard Charge²:
Fast Charge²:

Charging Cut-Off (a) or (b)

Standard Charge: 5

a) by time [h] Standard Charge: 5
Fast/Rapid Charge: 3
b) by min current [mA] 1.4

Discharge Cut-Off Voltage [V] 3.0

Max. Pulse Discharge Current [mA] 210 @ 2s

Max. Continuous Discharge Current [mA] 140

Operating Temperature [°C]Charge:0 to 45Discharge:-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 pending

Internal Approval

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

Date of Issue: 2023-06-26

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: 4.00V ± 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