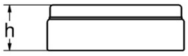
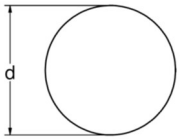
Data Sheet
CoinPower® CP1254 A4X

Data Sheet – CP1254 A4X (CoinPower®)[1]





Type Designation	CP1254 A4
Type Number	63125
VKB Number	63125 501 513
Cell Code	INR1254
System	Graphite – layered metal oxide ($LiNi_xMn_yCo_zO_2$)
UL Recognition	MH13654
Nominal Voltage [V]	3.7 (average)
Typical Capacity [mAh]	77 (at 0.1C from 4.3 V to 3.0 V at RT)
Nominal Capacity [mAh]	74 (at 0.2C from 4.3 V to 3.0 V at RT)
Rated Capacity C [mAh]	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 [g]	1.8 +0.2/-0.2
Charging Method	Constant Current + Constant Voltage
Charge Voltage [V]	4.30 ± 0.05
Initial Charge Current [mA]	Standard Charge[2]: 35 Fast Charge[2]: 70 Rapid Charge[3]: 140
Charging Cut-Off (a) or (b)	
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 45 Discharge: -20 to 60
Cell Surface Temperature [°C]	60
Storage Temperature **Capacity Recovery Rate[4] [%]**	1 Year at -20 to 20 °C > 90 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 °C[5] [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

[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

VARTA Microbattery GmbH
VARTA-Platz 1, 73479 Ellwangen,Germany
Tel.: +49 79 61 921-0
Telefax: +49 79 61 921-553