Data Sheet – CP 1254 A3 (CoinPower®)

Type Designation: CP 1254 A3
Type Number: 63125
Cell Code: ICR1254
System: Graphite – layered metal oxide (LiNi_{x}Mn_{y}Co_{z}O_{2})
UL Recognition: MH13654

Nominal Voltage [V]: 3.7 (average)
Typical Capacity C [mAh]: 63 (at 0.2C from 4.2 V to 3.0 V at 20 °C)
Nominal Capacity C [mAh]: 60 (at 0.2C from 4.2 V to 3.0 V at 20 °C)

Dimensions [mm] (without Tags): 
- Diameter: 12.1 ±0.0/-0.3
- Height: 5.4 +0.2/-0.1
- Weight, approx [g]: 1.6 +0.2/-0.2

Charging Method: Constant Current + Constant Voltage
Charge Voltage [V]: 4.20 ± 0.05

Initial Charge Current [mA]: 
- Standard Charge: 30
- Fast Charge\(^2\): 60
- Rapid Charge\(^3\): 120

Charging Cut-Off (a) or (b)
- a) by time [h]: Standard Charge: 5
- b) by min current [mA]: Fast/Rapid Charge: 3
- 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

Storage Temperature: 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 passed

Internal Approval: 
- Overcharge Test (12V, 3C, 12h) passed
- Overcharge Test (5V, 1A, 12h) passed

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\(^2\) "CoinPower A3-Version Charging Document" must be observed.

\(^3\) "CoinPower A3-Version Charging Document" must be observed. Max. charging voltage: 4.000V ± 0.05V; min. charging temperature: 15°C.

\(^4\) After storage at initial cell voltage of 3.6 to 3.7 V / cell
\(^5\) typical values