
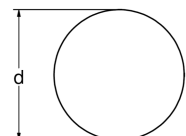



Data Sheet – CP 1654 (CoinPower®)¹

	Type Designation	CP 1654
	Type Number	63165
	Cell Code	ICR1654
	System	Graphite - layered metal oxide ($\text{LiNi}_x\text{Mn}_y\text{Co}_z\text{O}_2$)
	UL Recognition	MH13654
	Nominal Voltage [V]	3.7 (average)
	Nominal Capacity C [mAh]	100 (at 0.2 C from 4.2 V to 3.0 V at 20 °C)
	Dimensions [mm] (without Tags)	
	Diameter	16.1 +0.0 / -0.3
	Height	5.4 +0.2 / -0.1
	Weight. approx [g]	3.2 +0.3 / -0.3
	Charging Method	Constant Current + Constant Voltage
	Charge Voltage [V]	4.20 ± 0.05
	Initial Charge Current [mA]	Standard Charge: 0.5 C Rapid Charge: 1 C
	Charging Cut-Off (a) or (b)	
	a) by time [h]	Standard Charge: 5 Rapid Charge: 3
	b) by min current [mA]	0.02 C
	Discharge Cut-Off Voltage [V]	3.0
	Max. Pulse Discharge Current [mA]	3 C @ 2 s
	Max. Continuous Discharge Current [mA]	2 C
	Operating Temperature [°C]	Charge: 0 to 45 Discharge: -20 to 60
	Storage Temperature	1 Year at -20 to 20 °C > 80
	Capacity Recovery Rate² [%]	3 Month at -20 to 45 °C > 80 1 Month at -20 to 60 °C > 75
	Impedance Initial [Ω]	< 0,4 @ 1 kHz
	Cycle Life 0.2 C / 0.2 C, 20 °C [Cycles]	> 500 (> 80 % of C _{ini})
	Cycle Life 1 C / 1 C, 20 °C [Cycles]	> 300 (> 80 % of C _{ini})
	Safety	UL passed
	Internal Approval	
	Overcharge Test (12 V, 3 C, 12 h)	passed
	Overcharge Test (12 V, 1 C, 12 h)	passed
	Overcharge Test (5 V, 1 A, 12 h)	passed

¹ Recommendations regarding Charging / Discharging and Safety (cf. Product Manual) have to be accepted.

Cell must not be used without external safety electronics (PCM – Protection Circuit Module).

² After storage at initial cell voltage of 3.7 to 3.9 V / cell; values estimated – not measured yet.