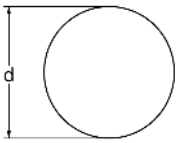
Data Sheet CoinPower® CP 1254 A3

Data Sheet – CP 1254 A3 (CoinPower®)[1]



Type Designation	CP 1254 A3
Type Number	63125
Cell Code	ICR1254
System	Graphite – layered metal oxide ($LiNi_xMn_yCo_zO_2$)
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
Charging Cut-Off (a) or (b)	
a) by time [h]	Standard Charge: 5
b) by min current [mA]	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 **Capacity Recovery Rate[2] [%]**	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[3] [Cycles]	>500 (> 80% of C_{ini})
Safety	UN 38.3 passed UL 1642 passed IEC 62133 relevant tests passed
Internal Approval	
Overcharge Test (12V, 1.5C, 12h)	passed
Overcharge Test (5V, 1A, 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 at least one of the following patents: US 6265100 B1,US 6066184 A,US 9178251 B2,US 9231281 B2,US 8586232 B2,US 9153835 B2,CN 102318122 B,CN 102804473 B,EP 2628203 B1,EP 2443691 B1,EP 2415101 B1,EP 2394324 B1,JP 5767115 B2,DE 19647593 B4.
[2] After storage at initial cell voltage of 3.6 to 3.7 V / cell
[3] typical values

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Data Sheet CoinPower® CP 1454 A3

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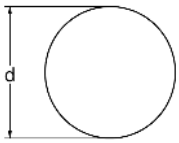

Type Designation	CP 1454 A3
Type Number	63145
Cell Code	ICR1454
System	Graphite – layered metal oxide ($LiNi_xMn_yCo_zO_2$)
UL Recognition	MH13654
Nominal Voltage [V]	3.7 (average)
Typical Capacity C [mAh]	90 (at 0.2C from 4.2 V to 3.0 V at 20 °C)
Nominal Capacity C [mAh]	85 (at 0.2C from 4.2 V to 3.0 V at 20 °C)
Dimensions [mm] (without Tags)	
Diameter	14.1 +0.0/-0.3
Height	5.4 +0.2/-0.1
Weight. approx [g]	2.4 +0.2/-0.2
Charging Method	Constant Current + Constant Voltage
Charge Voltage [V]	4.20 ± 0.05
Initial Charge Current [mA]	Standard Charge: 42.5 mA Fast Charge[2]: 85 mA
Charging Cut-Off (a) or (b)	
a) by time [h]	Standard Charge: 5 Fast Charge: 3
b) by min current [mA]	1.7 mA
Discharge Cut-Off Voltage [V]	3.0
Max. Pulse Discharge Current [mA]	255 mA @ 2s
Max. Continuous Discharge Current [mA]	170 mA
Operating Temperature [°C]	Charge: 0 to 45 Discharge: -20 to 60
Storage Temperature **Capacity Recovery Rate[3] [%]**	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[4] [Cycles]	>500 (> 80% of C_{ini})
Safety	UN 38.3 passed IEC 62133 passed
Internal Approval	
Overcharge Test (12V, 1.5C, 12h)	passed
Overcharge Test (5V, 1A, 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 at least one of the following patents: US 6265100 B1,US 6066184 A,US 9178251 B2,US 9231281 B2,US 8586232 B2,US 9153835 B2,CN 102318122 B,CN 102804473 B,EP 2628203 B1,EP 2443691 B1,EP 2415101 B1,EP 2394324 B1,JP 5767115 B2,DE 19647593 B4.
[2] "CoinPower A3-Version Charging Document" must be noted
[3] After storage at initial cell voltage of 3.6 to 3.7 V / cell
[4] typical values

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Data Sheet CoinPower® CP 1654 A3

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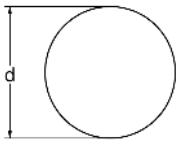

Type Designation	CP 1654 A3
Type Number	63165
Cell Code	ICR1654
System	Graphite – layered metal oxide ($LiNi_xMn_yCo_zO_2$)
UL Recognition	MH13654
Nominal Voltage [V]	3.7 (average)
Typical Capacity C [mAh]	122 (at 0.2C from 4.2 V to 3.0 V at 20 °C)
Nominal Capacity C [mAh]	120 (at 0.2C from 4.2 V to 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 +0.2/-0.2
Charging Method	Constant Current + Constant Voltage
Charge Voltage [V]	4.20 ± 0.05
Initial Charge Current [mA]	Standard Charge: 60
Charging Cut-Off (a) or (b)	
a) by time [h]	Standard Charge: 5
b) by min current [mA]	2.4
Discharge Cut-Off Voltage [V]	3.0
Max. Pulse Discharge Current [mA]	360 @ 2s
Max. Continuous Discharge Current [mA]	240
Operating Temperature [°C]	Charge: 0 to 45 Discharge: -20 to 60
Storage Temperature **Capacity Recovery Rate[2] [%]**	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]	< 0.4 @ 1kHz
Cycle Life 0.5C/0.5C, 20 °C[3] [Cycles]	>500 (> 80% of C_{ini})
Safety	UN 38.3 passed UL 1642 passed IEC 62133 relevant tests passed
Internal Approval	
Overcharge Test (12V, 1.5C, 12h)	passed
Overcharge Test (5V, 1A, 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 at least one of the following patents: US 6265100 B1,US 6066184 A,US 9178251 B2,US 9231281 B2,US 8586232 B2,US 9153835 B2,CN 102318122 B,CN 102804473 B,EP 2628203 B1,EP 2443691 B1,EP 2415101 B1,EP 2394324 B1,JP 5767115 B2,DE 19647593 B4.
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