# Data Sheet – CP 1454 A3 (CoinPower®)

<table>
<thead>
<tr>
<th>Type Designation</th>
<th>CP 1454 A3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type Number</td>
<td>63145</td>
</tr>
<tr>
<td>Cell Code</td>
<td>ICR1454</td>
</tr>
<tr>
<td>System</td>
<td>Graphite – layered metal oxide (LiNi&lt;sub&gt;x&lt;/sub&gt;Mn&lt;sub&gt;y&lt;/sub&gt;Co&lt;sub&gt;z&lt;/sub&gt;O&lt;sub&gt;2&lt;/sub&gt;)</td>
</tr>
<tr>
<td>UL Recognition</td>
<td>MH13654</td>
</tr>
</tbody>
</table>

**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]: 2.3 +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
- Fast Charge: 85
- Rapid Charge: 170

**Charging Cut-Off (a) or (b)**
- a) by time [h]
- Standard Charge: 5
- Fast/Rapid Charge: 3
- b) by min current [mA]
- 1.7

**Discharge Cut-Off Voltage [V]**
- 3.0

**Max. Pulse Discharge Current [mA]**
- 255 @ 2s

**Max. Continuous Discharge Current [mA]**
- 170

**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 [Cycles]**
- >500 (> 80% of C<sub>ini</sub>)

**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: 4.00V ± 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