

**Small, Light, Powerful:**

**New Lithium Rechargeable  
Batteries from VARTA**

**Performance Data  
CoinPower**



Nov18

# VARTA - Rechargeable Lithium Button Cells

## Product Range Overview



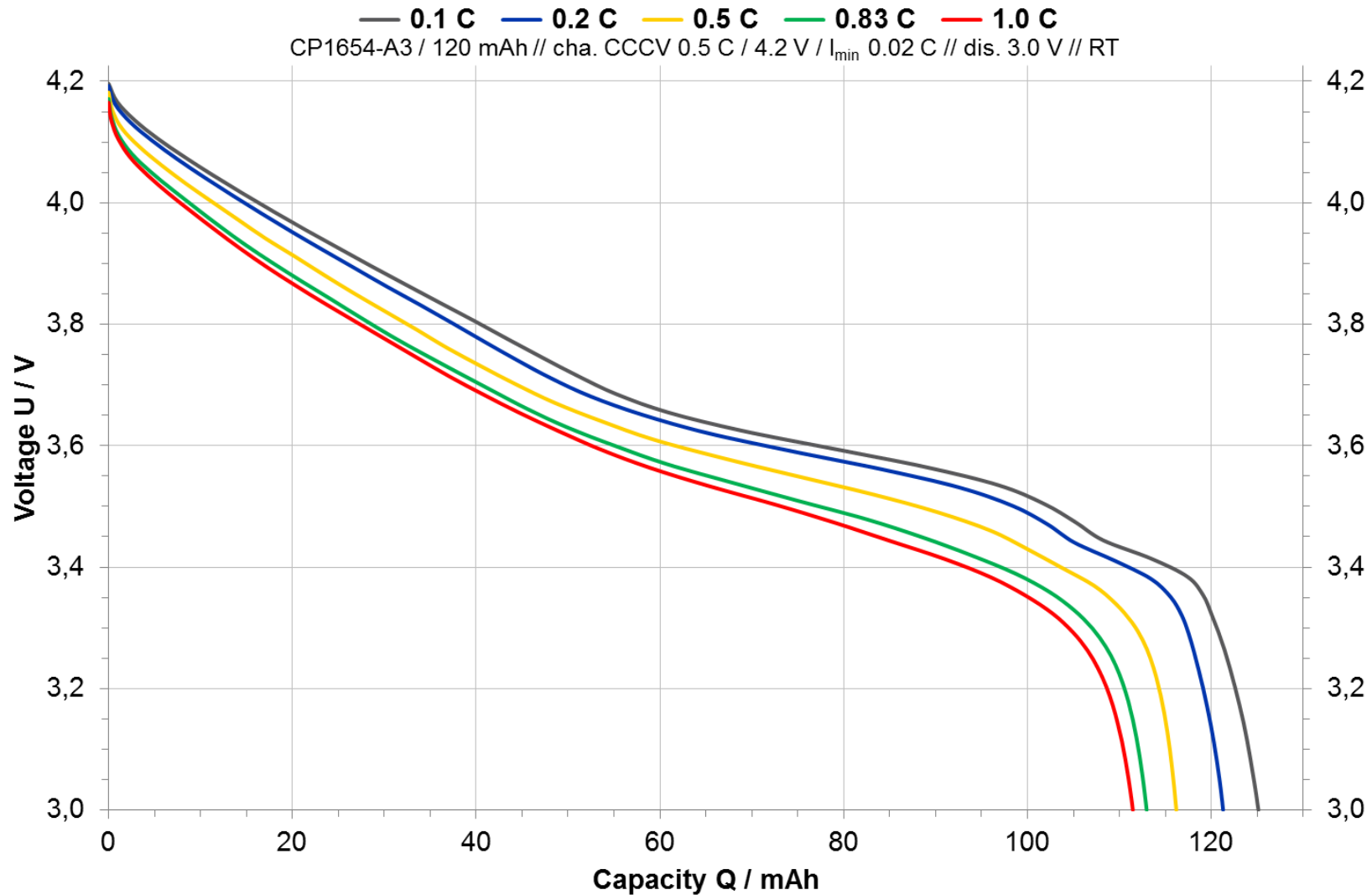
Type Designation	CP7840	CP9440	CP0854	CP1254	CP1454	CP1654
Voltage (V)	3.7	3.7	3.7	3.7	3.7	3.7
Capacity (mAh)	16	25	25	60	85	120
Energy density (Wh/l)	310	333	310	357	373	404
Diameter (mm)	7.8	9.4	8.4	12.1	14.1	16.1
Height (mm)	4.0	4.0	5.4	5.4	5.4	5.4
Weight (g)	0.7	0.8	0.9	1.6	2.4	3.2

## CP 1654 A3 – 120mAh Performance Data

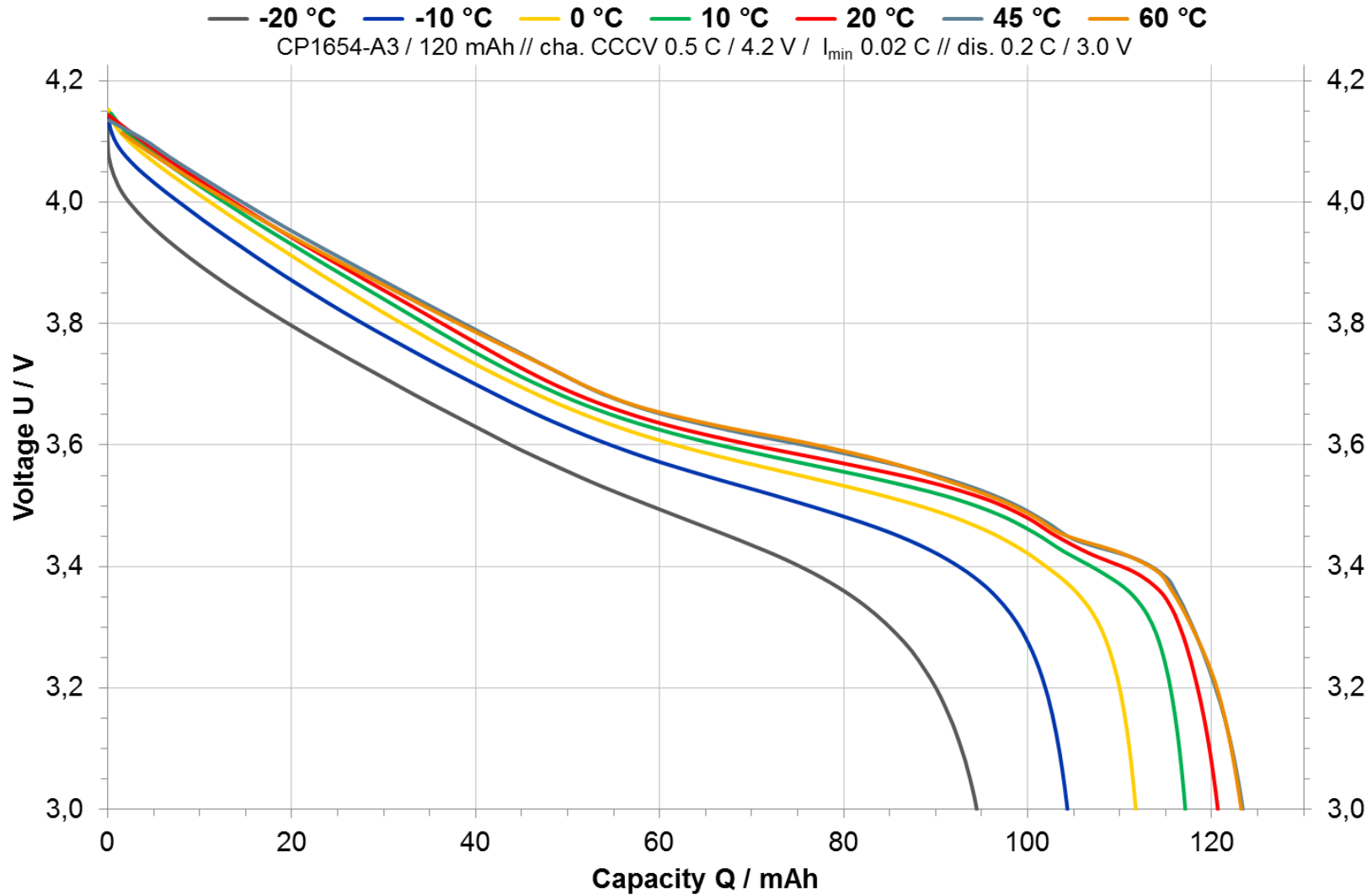
- patented innovations -



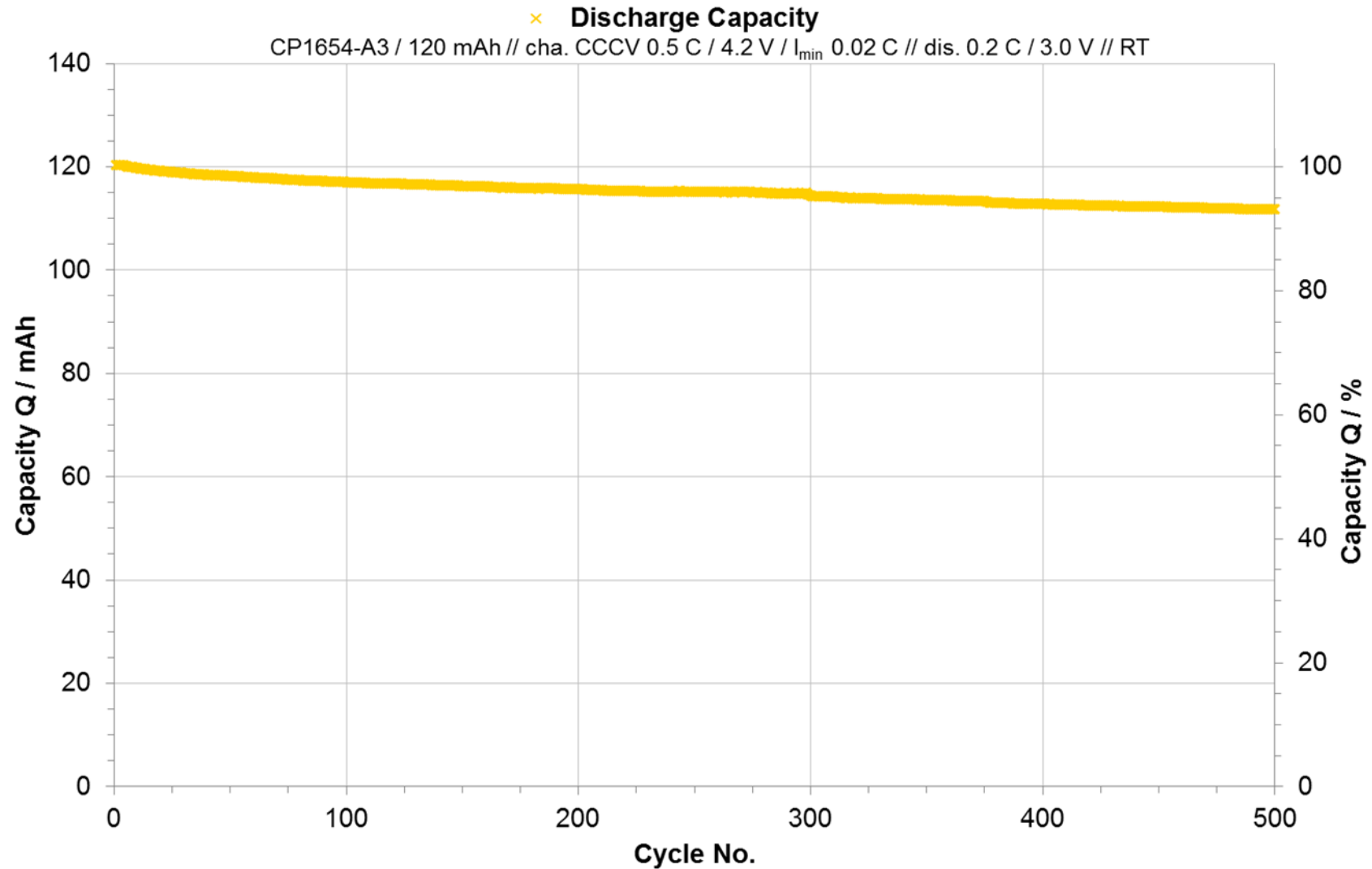
# CP1654 A3 – Discharge Characteristic with different loads



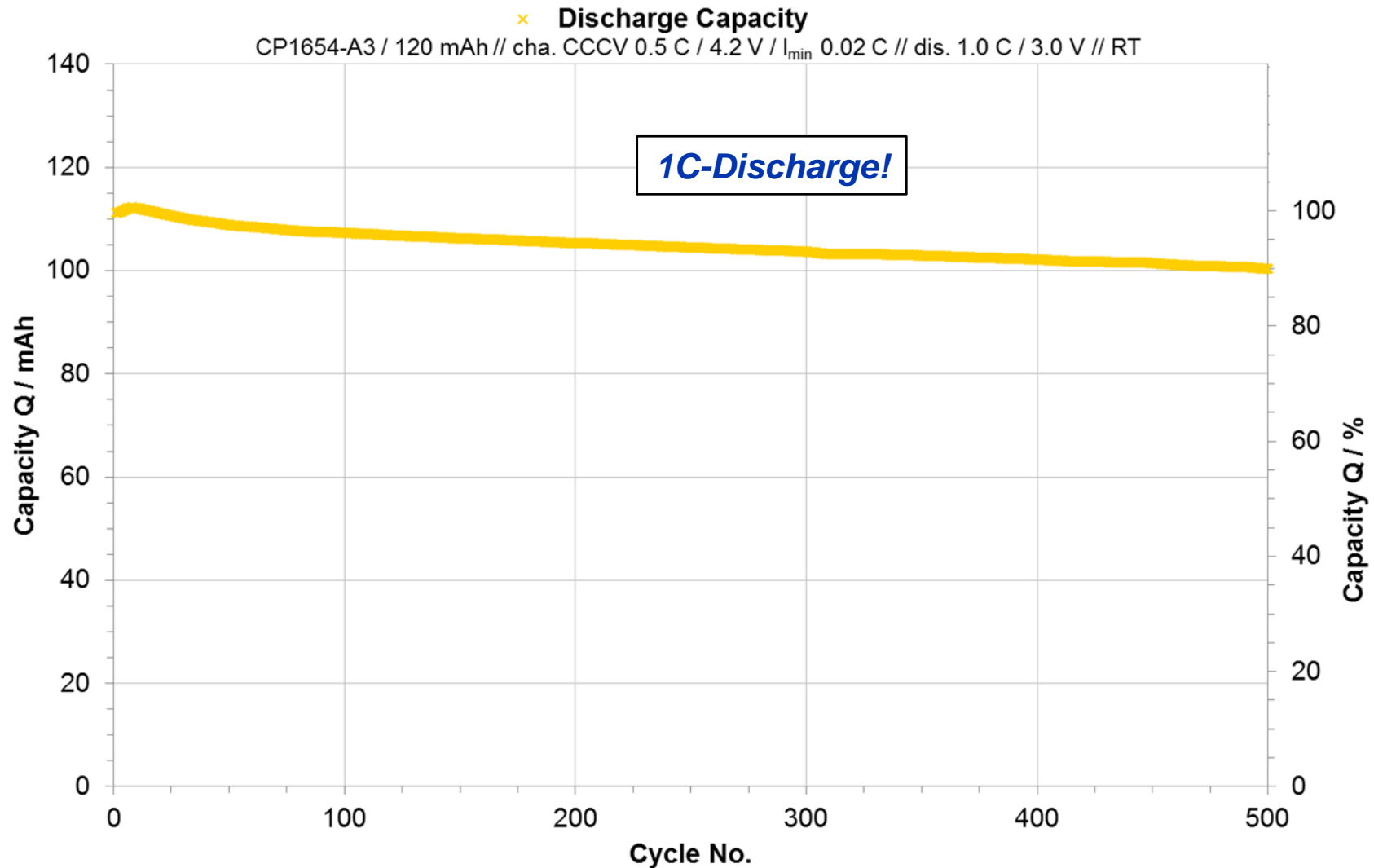
# CP1654 A3 – Discharge Characteristic at various temperatures



# CP1654 A3 – Typical Cycle Characteristic – 0.5C/0.2C



# CP1654 A3 – Typical Cycle Characteristic 0.5C/1C



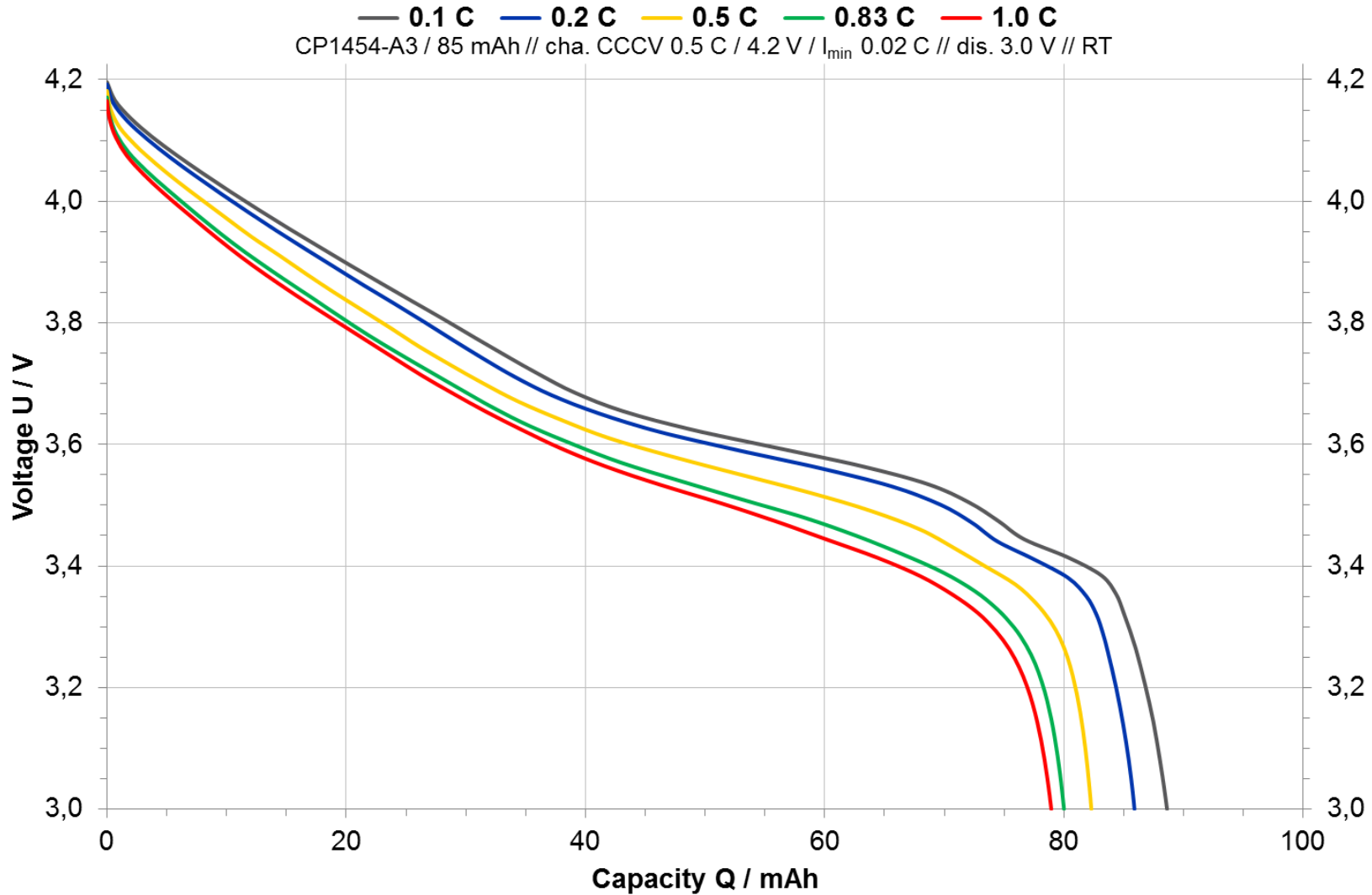
## CP 1454 A3 – 85mAh Performance Data

- patented innovations -

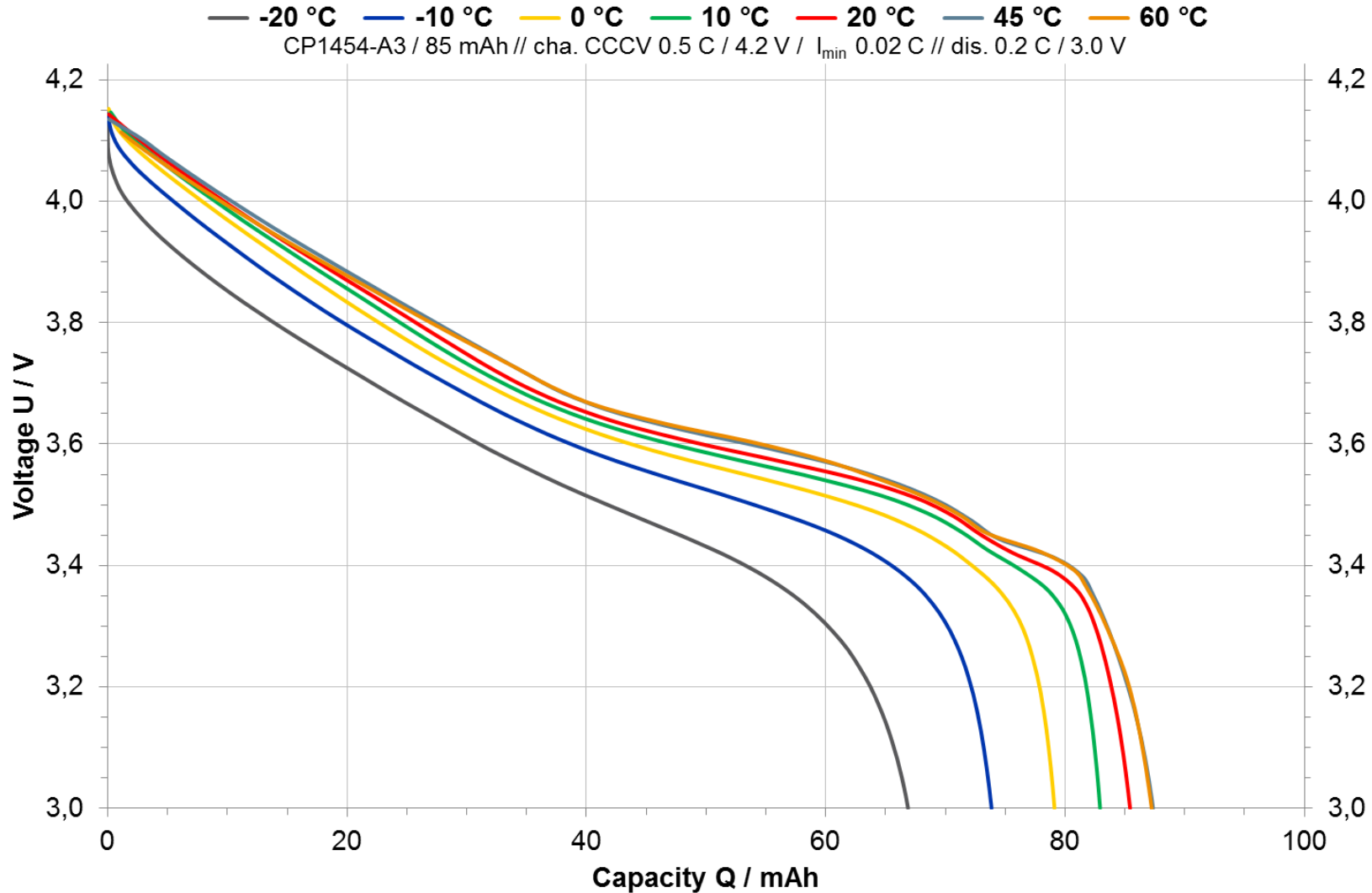




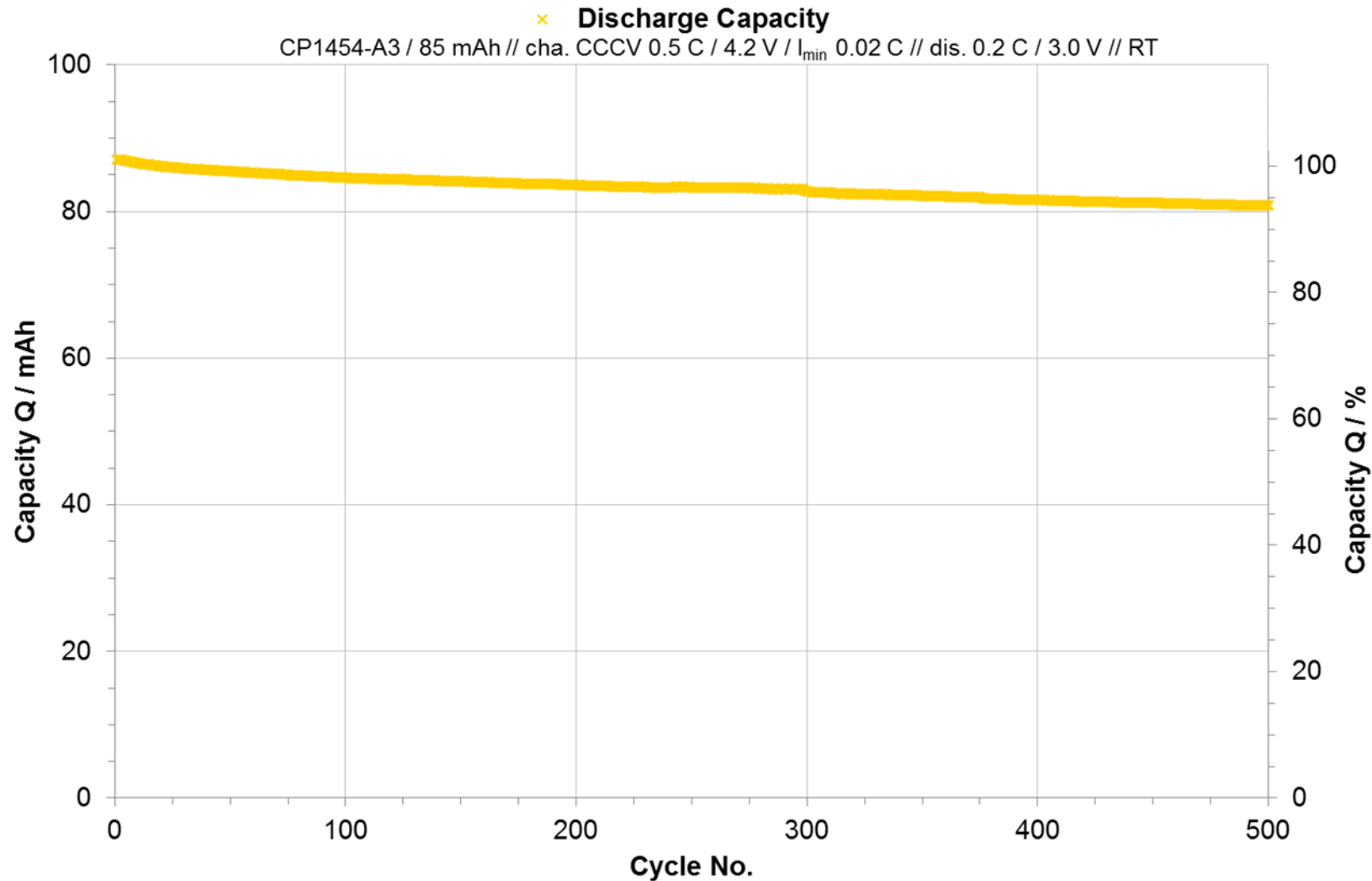
# CP1454 A3 – Discharge Characteristic with different loads



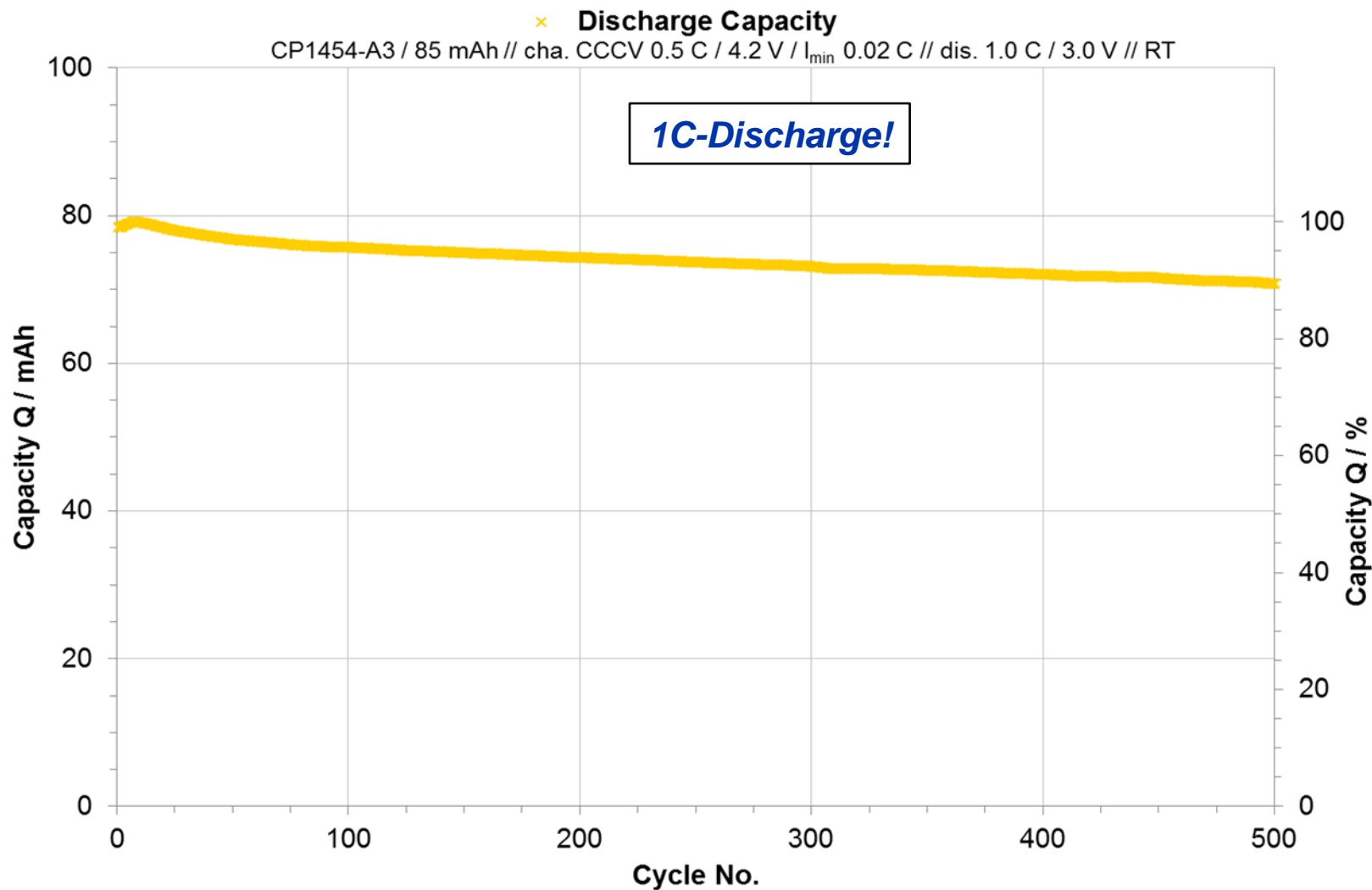
# CP1454 A3 – Discharge Characteristic at various temperatures



# CP1454 A3 – Typical Cycle Characteristic 0.5C/0.2C



# CP1454 A3 – Typical Cycle Characteristic 0.5C/1C

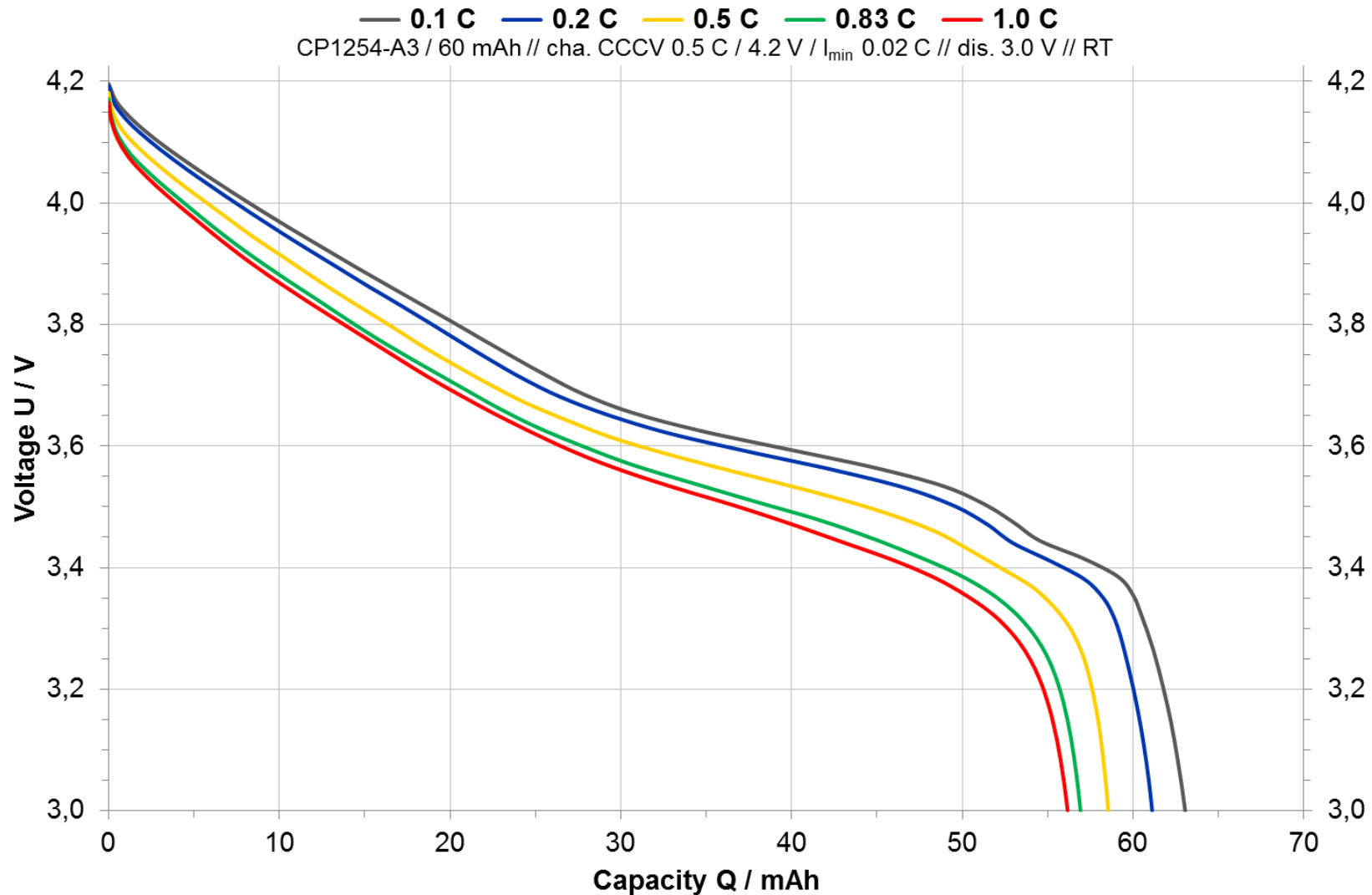


## CP 1254 A3 – 60mAh Performance Data

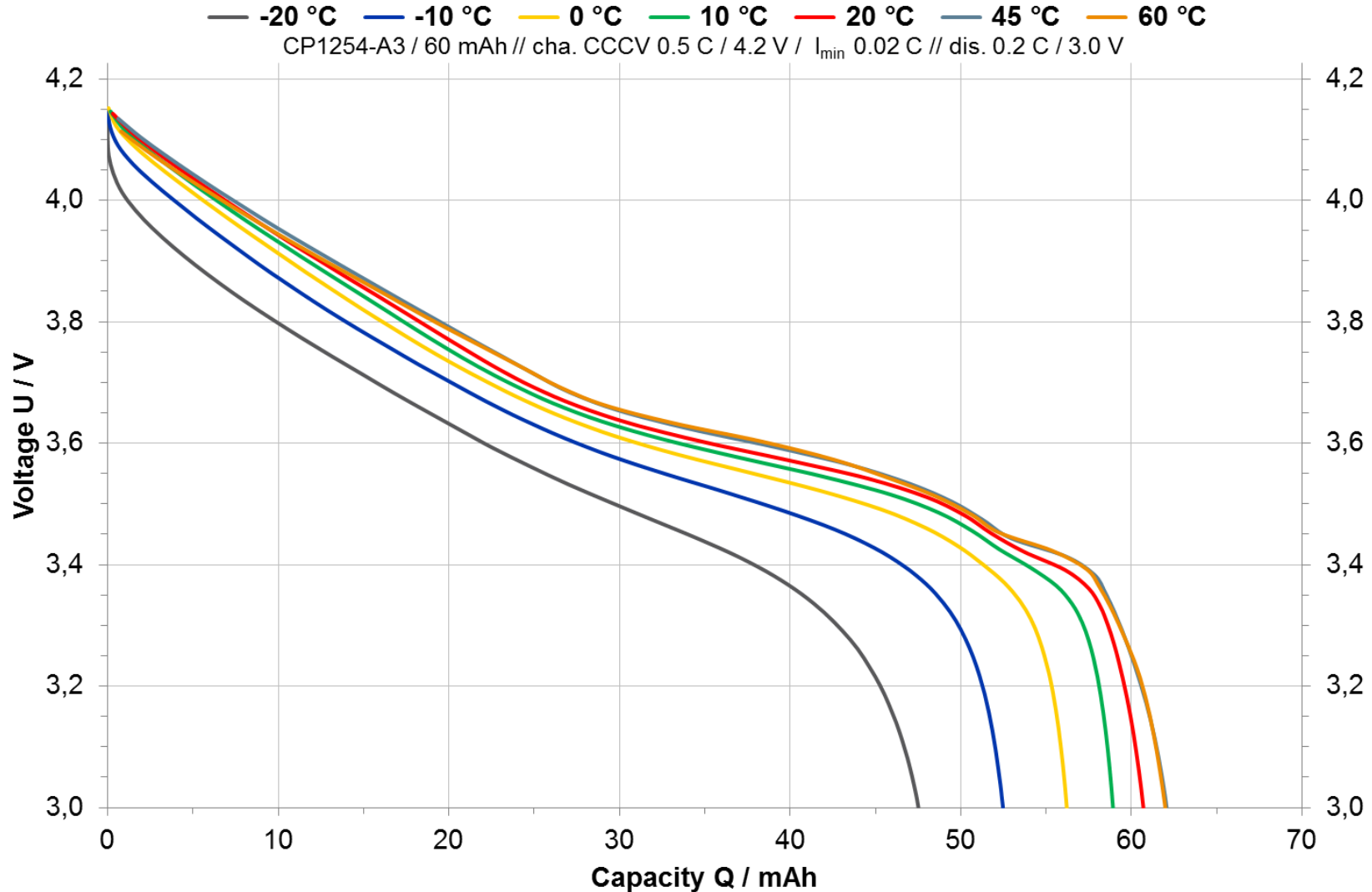
- patented innovations -



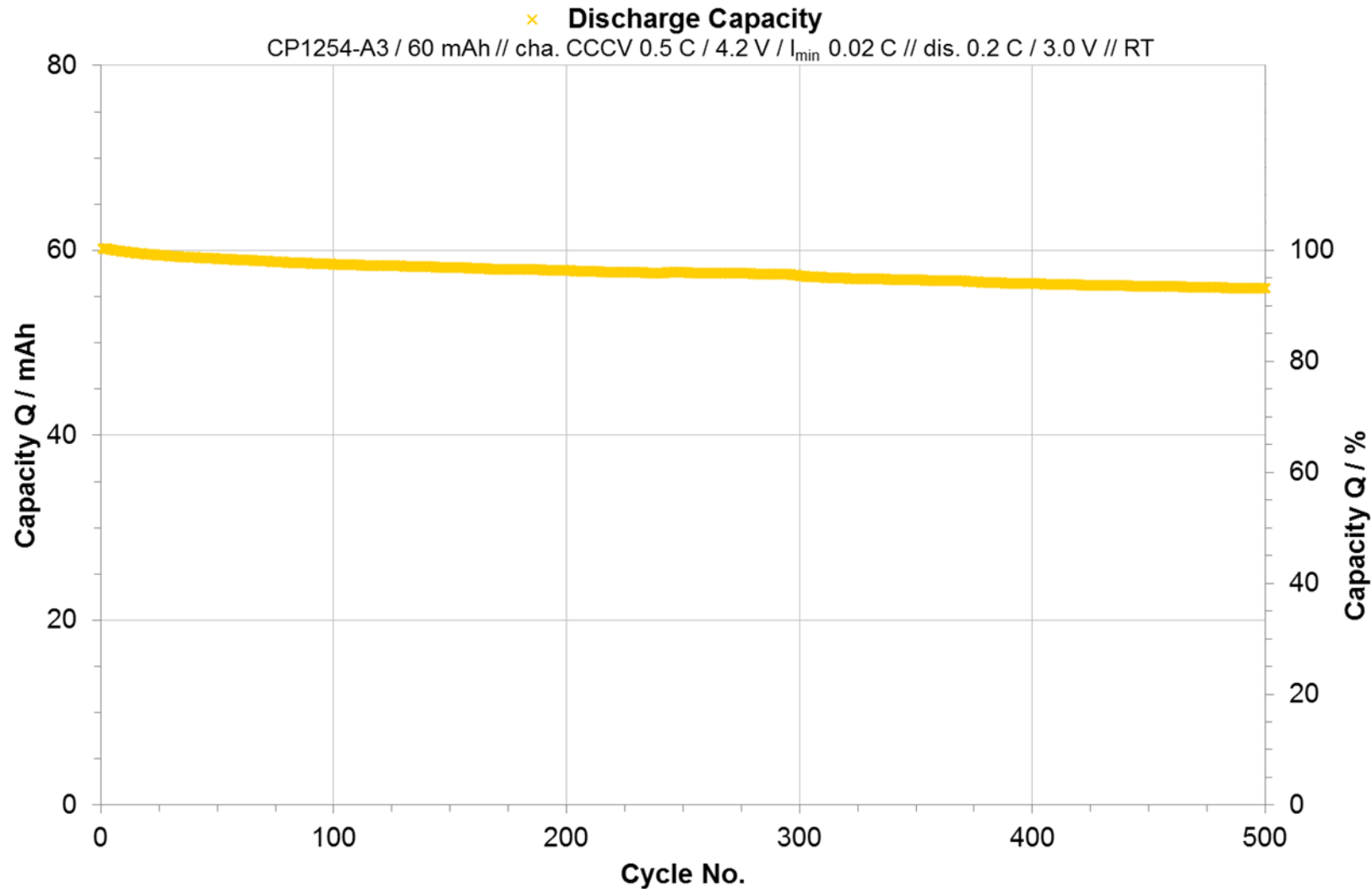
# CP1254 A3 – Discharge Characteristic with different loads



# CP1254 A3 – Discharge Characteristic at various temperatures

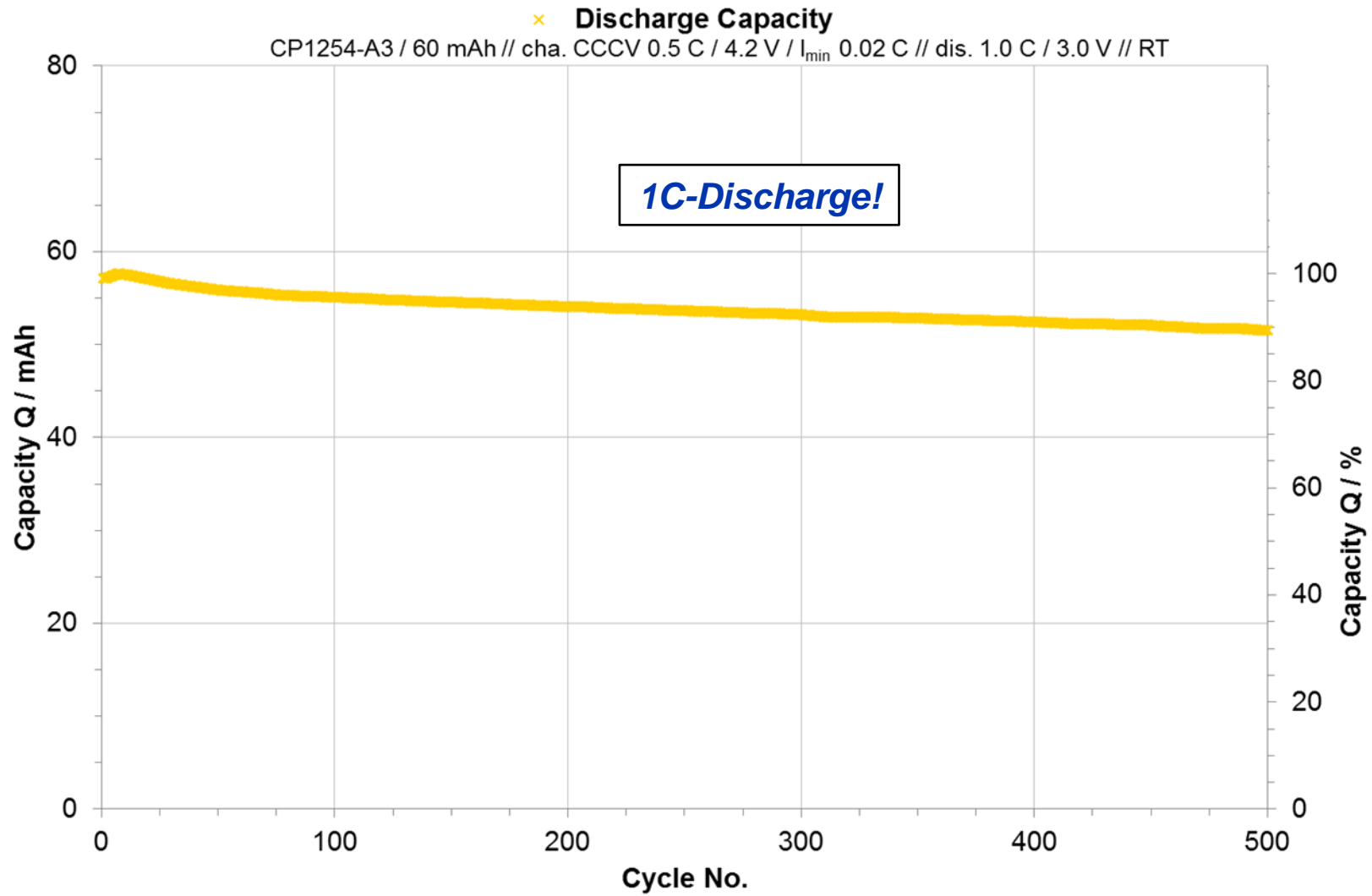


# CP1254 A3 – Typical Cycle Characteristic 0.5C/0.2C





# CP1254 A3 – Typical Cycle Characteristic 0.5C/1C

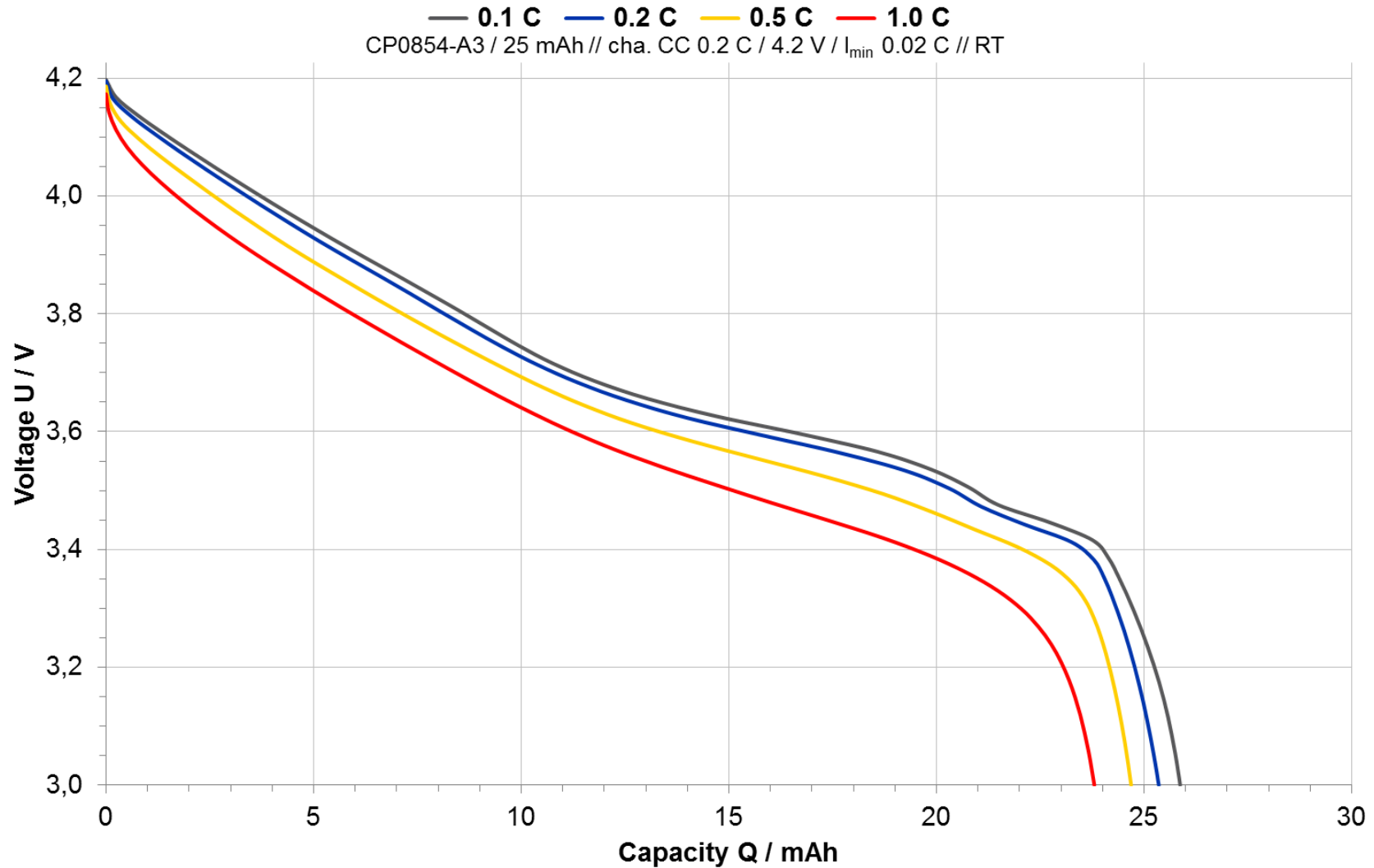


## CP 0854 A3 – 25mAh Performance Data

- patented innovations -



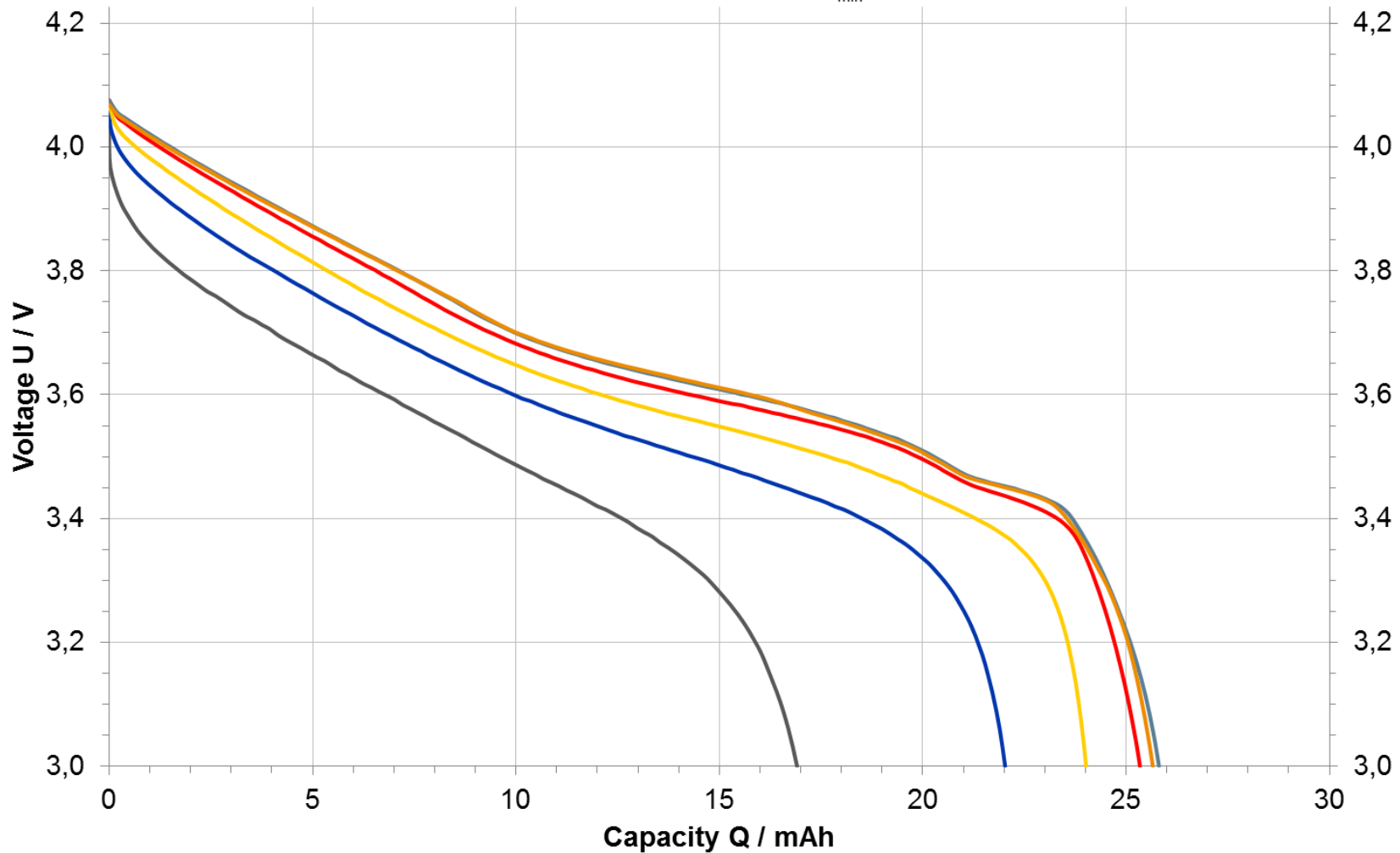
# CP0854 A3 – Discharge Characteristic with different loads



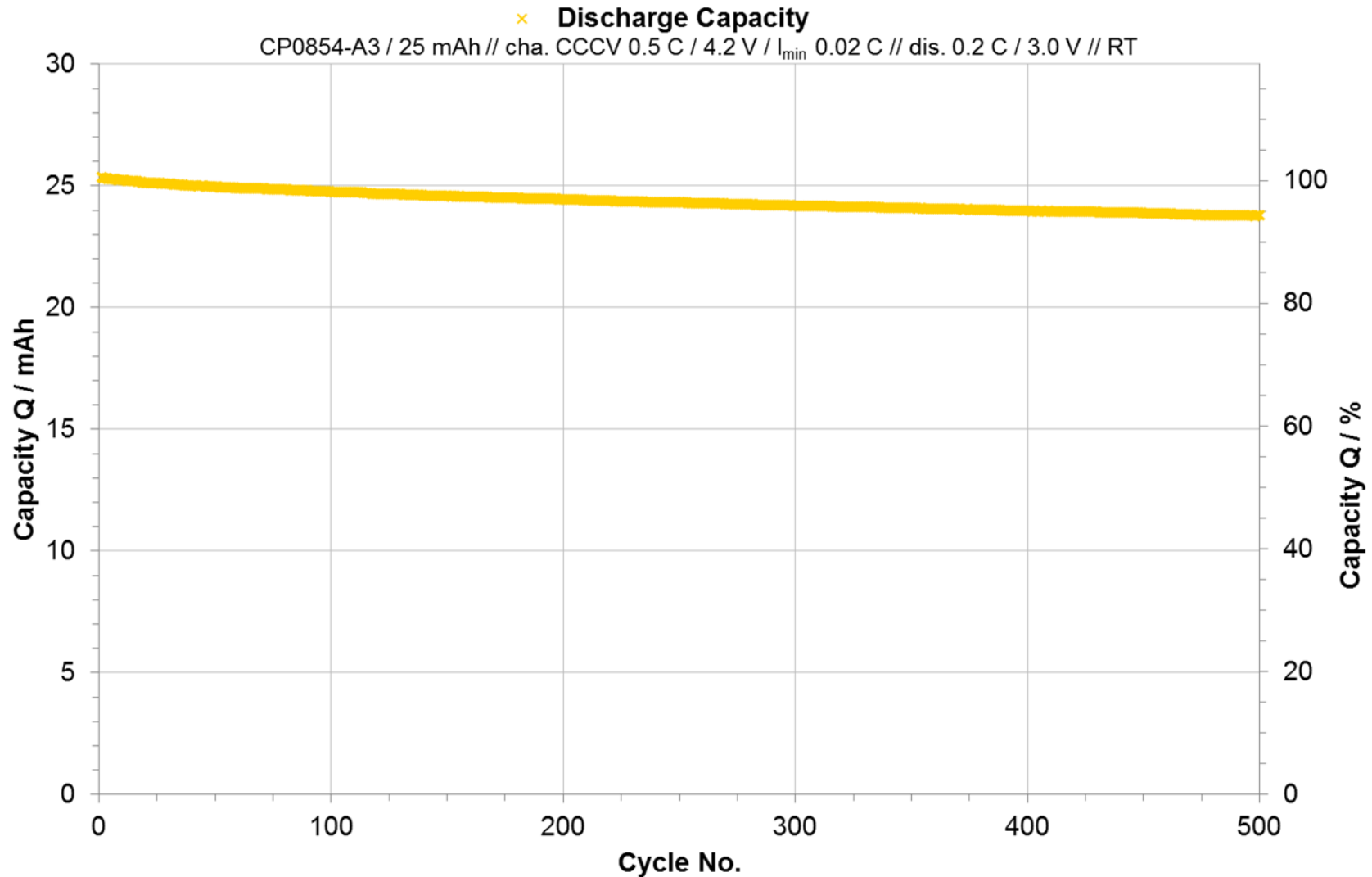
# CP0854 A3 – Discharge Characteristic at various temperatures



— -20 °C — -10 °C — 0 °C — 20 °C — 45 °C — 60 °C  
CP0854-A3 / 25mAh // cha. CCCV 0.5 C / 4.2 V /  $I_{\min}$  0.02 C // dis. 0.2 C / 3.0 V



# CP0854 A3 – Typical Cycle Characteristic 0.5C/0.2C

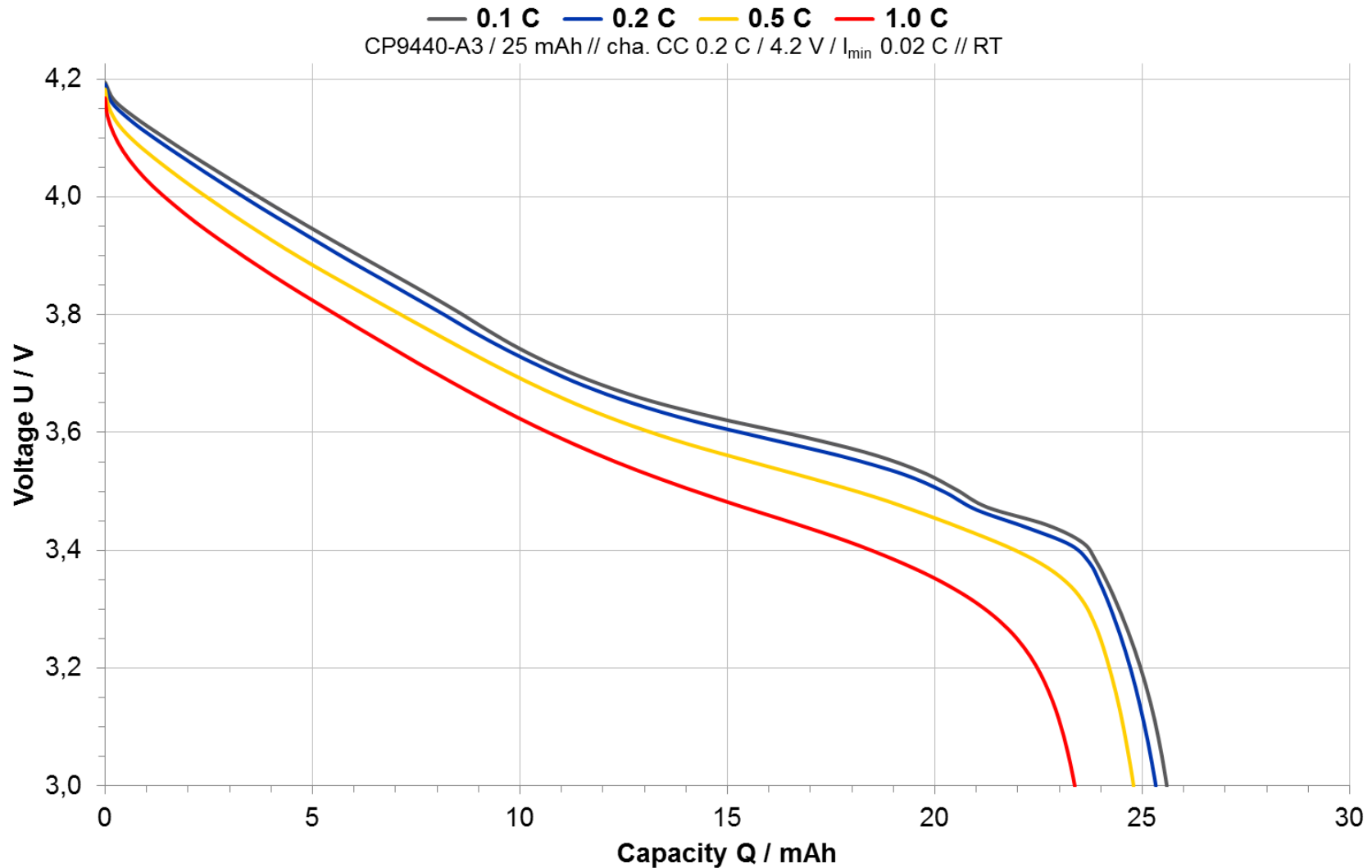


## CP 9440 A3 – 25mAh Performance Data

- patented innovations -



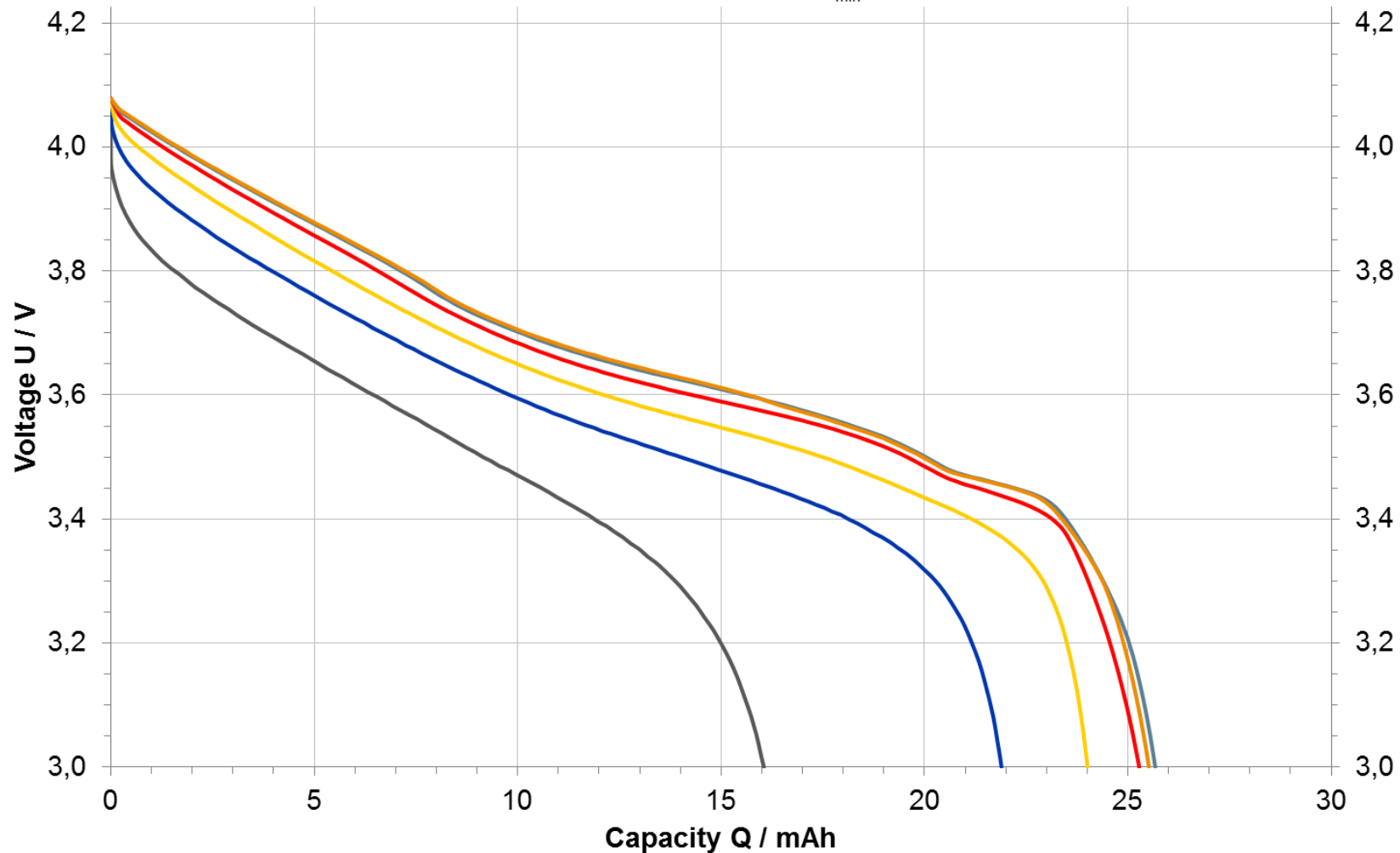
# CP9440 A3 – Discharge Characteristic with different loads



# CP9440 A3 – Discharge Characteristic at various temperatures

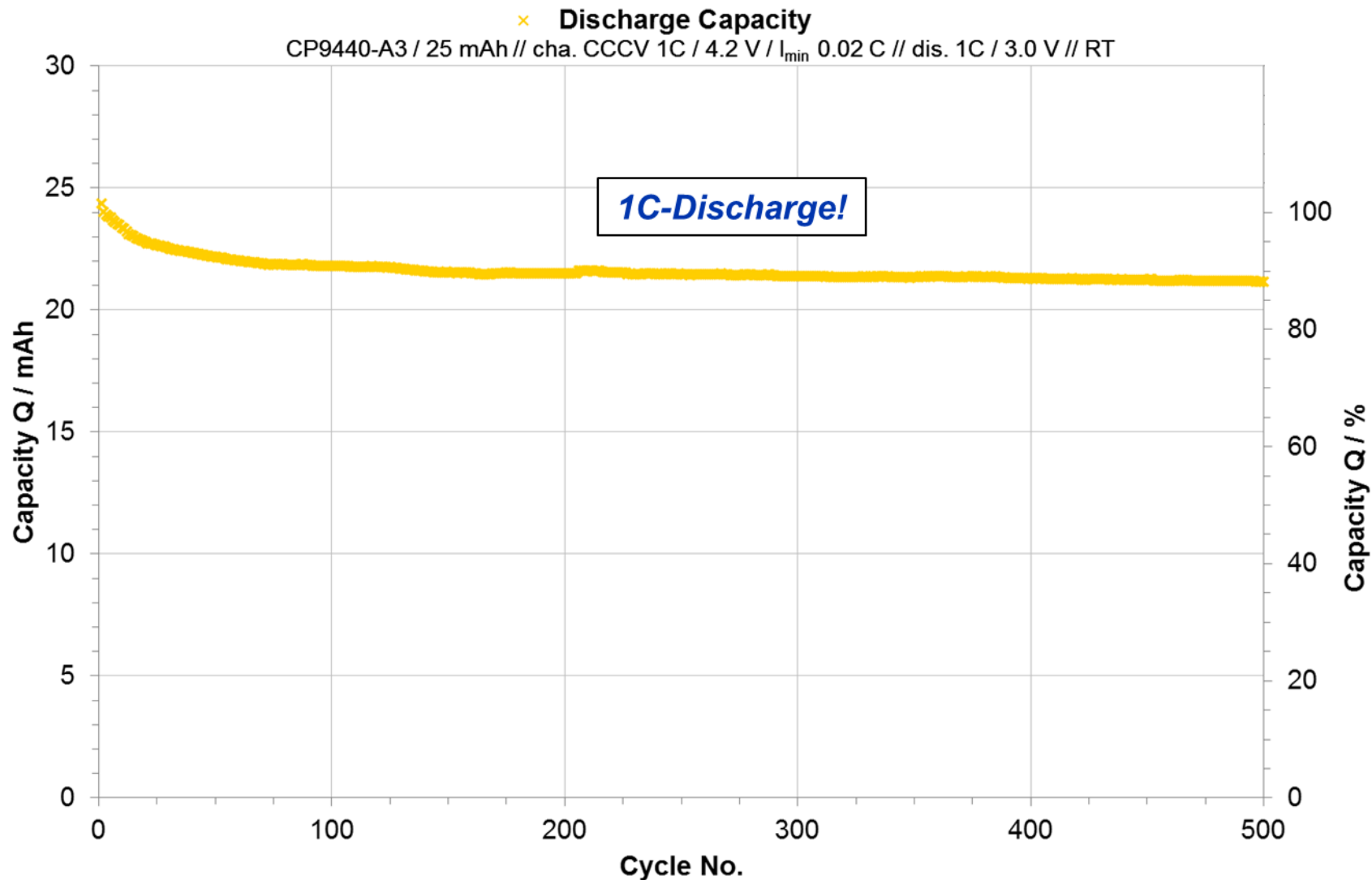


— -20 °C — -10 °C — 0 °C — 20 °C — 45 °C — 60 °C  
CP9440-A3 / 25mAh // cha. CCCV 0.5 C / 4.2 V /  $I_{\min}$  0.02 C // dis. 0.2 C / 3.0 V





# CP9440 A3 – Typical Cycle Characteristic 1C/1C

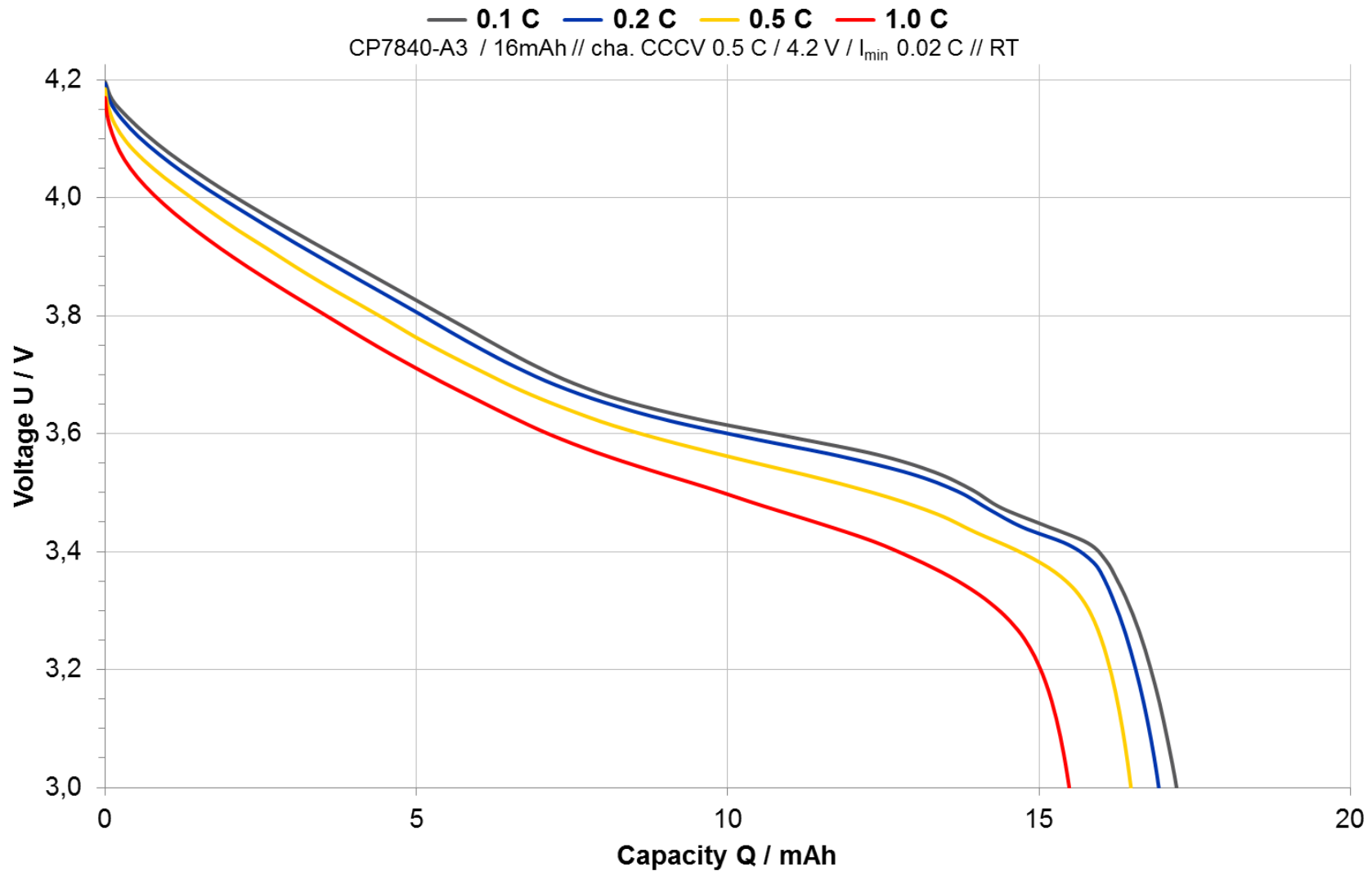


## CP 7840 A3 – 16mAh Performance Data

- patented innovations -



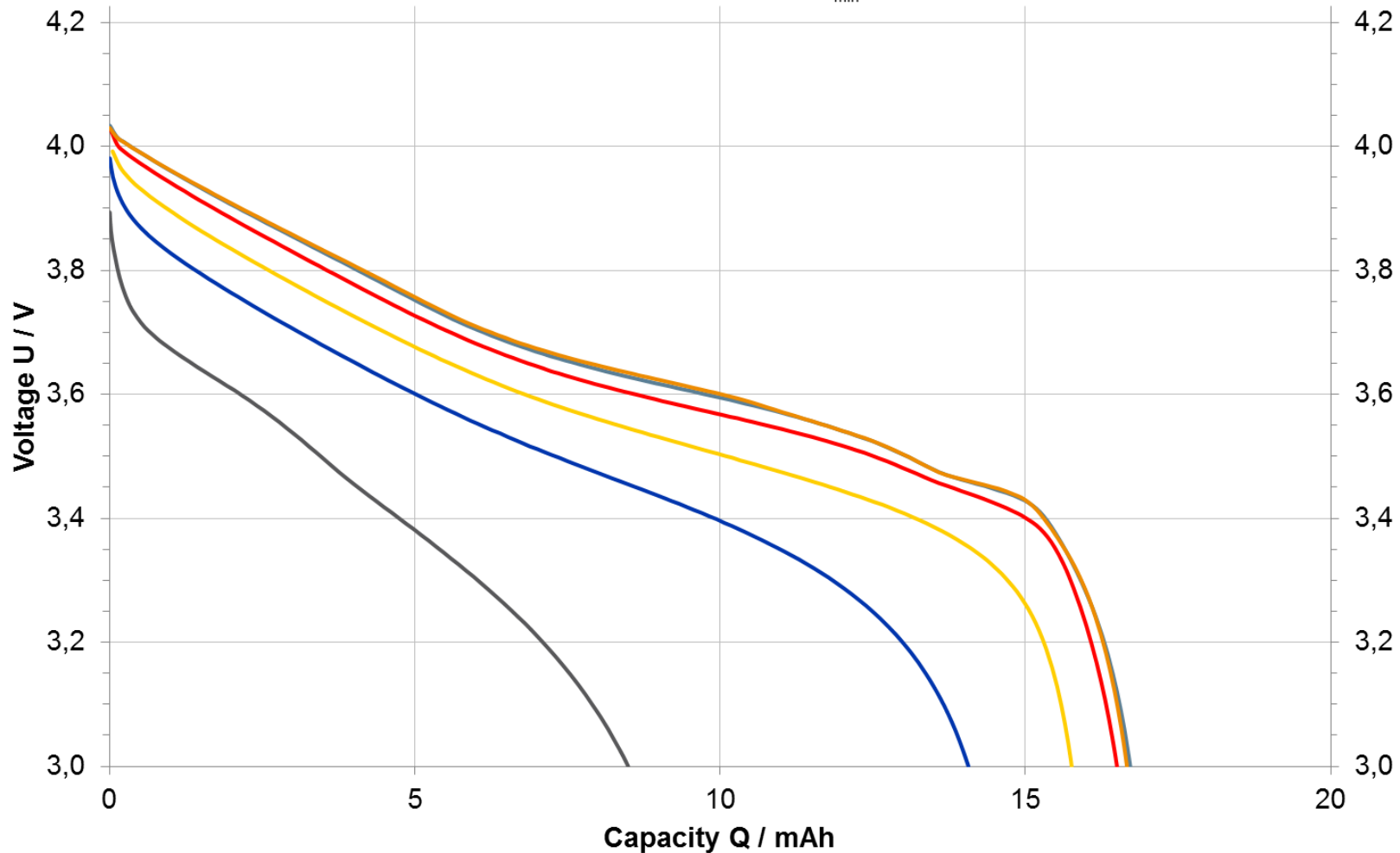
# CP7840 A3 – Discharge Characteristic with different loads



# CP7840 A3 – Discharge Characteristic at various temperatures



— -20 °C — -10 °C — 0 °C — 20 °C — 45 °C — 60 °C  
CP7840-A3 / 16mAh // cha. CCCV 0.5 C / 4.2 V / I<sub>min</sub> 0.02 C // dis. 0.2 C / 3.0 V



# CP7840 A3 – Typical Cycle Characteristic 1C/1C

