

1. Data Sheet¹

Model Number: HCP-508085

2. Dimensions [mm]

▶ Thickness (T)	Max. 5.0(delivery status) Max. 5.4 (after cycling)
▶ Width (W)	Max. 80.0
▶ Length (L)	Max. 85.0(without tabs)
▶ Tab Distance (B)	60.0±2.0
▶ Tab Length (A)	4.0±0.5
▶ Tab Width (C)	5.0±0.2
▶ Top Sealing Width (D)	3.0
▶ Tab Sealant Height (E)	1.5mm for Ref.
▶ Weight Approx. [g]	87.04g

3. Electrical Parameter

▶ Nominal Voltage [V]	3.7 (average)
▶ Typical Capacity [mAh]	4020 (0.2C at 20°C)
▶ Min. Capacity C [mAh]	4000(0.2C at 20°C)
▶ Impedance Initial [mΩ]	<30 @ 1kHz at 4.2V
▶ Max. Continuous Charge Current [mA]	0.5C (Standard 0.2C)
▶ Max Peak Charge Current[mA]	1.0C (Standard 0.2C)
▶ Max. Charge Voltage [V]	4.20
▶ Max. Continuous Discharge Current [mA]	1.0C (Standard 0.2C)
▶ Max Peak Discharge Current[mA]	2.0C, 2-3ms (Standard 0.2C)
▶ Discharge Cut off [V]	3.0
▶ Life Expectancy 0.5C / 0.5C	>80% of capacity after 500 cycles @0.2C, 25°C
▶ Operating Temperature [°C]	Charge: 0 to 45 Discharge: -20 to 60
▶ Storage Temperature	6 months at -10 to +35°C

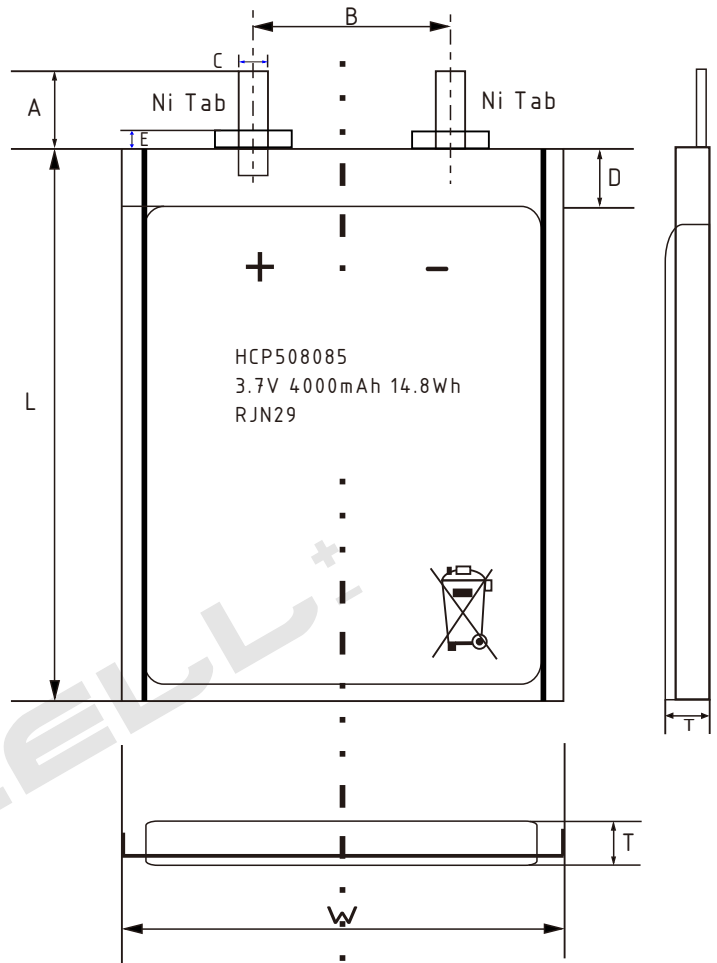
4. Delivery Status

▶ Cell Voltage	3.7V-3.99V
▶ Cell Capacity	50%-75%

5. Date Code Nomenclature



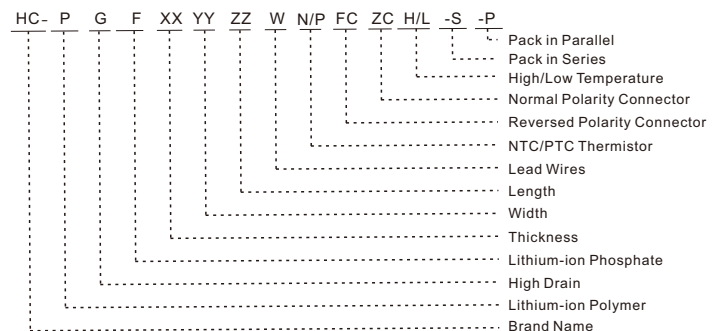
6. Mechanical Drawing (Not in Scale)



7. Safety Approvals

▶ Compliant with RoHS, CE, FCC, UN38.3, REACH, KC, PSE
IEC62133(TUV-CB), UL1642/2054 & GB31241-2014

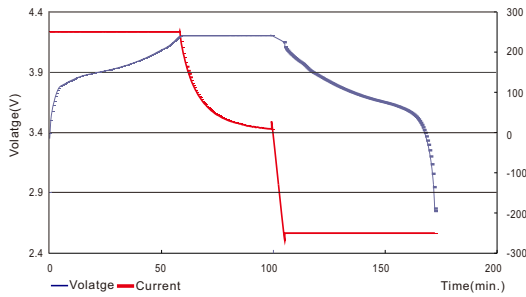
8. Model Nomenclature



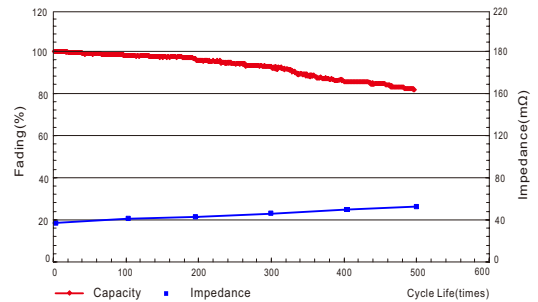
¹ Prior to read Honcell "Handling Precautions and Guidelines for Lithium-ion Polymer Rechargeable Batteries" subject to change without prior notice!

9. Curves

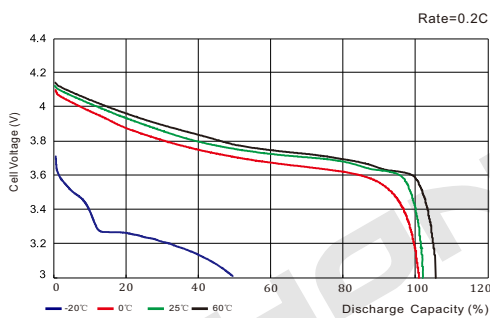
Charge & Discharge (25°C)



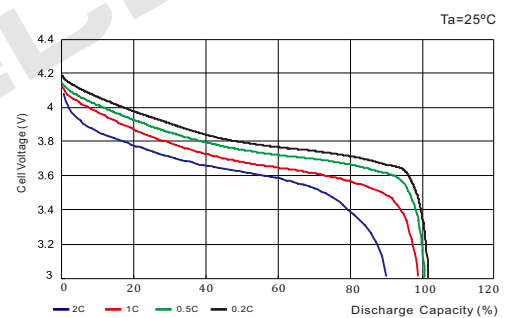
Cycle Life



Discharge Characteristics (Temperature)



Discharge Characteristics (Rate)



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