

1. Data Sheet¹

Model Number: HCP-501220

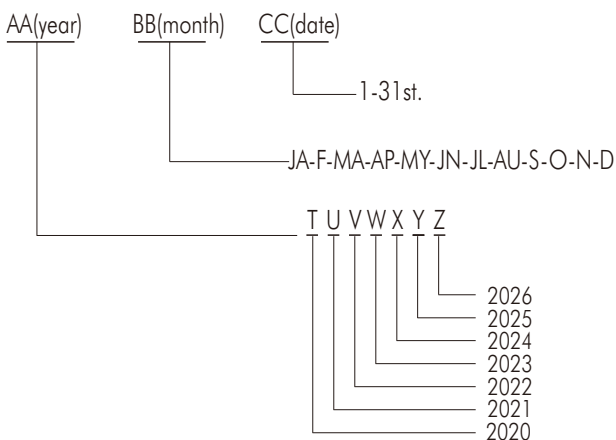
2. Dimensions [mm]

Thickness	T	Max. 5.0 (at delivery) Max. 5.4 (after cycling)
Width	W	Max. 12.5
Length	L	Max. 20.5 (exclude tabs)
Tab Distance	B	5.0±1.5
Tab Length	A	6.0±0.5
Tab Width	C	2.0±0.2
Top Sealing Width	D	3.0
Top Sealant Height	E	1.5 for Ref.
Weight Approx. [g]		2.5

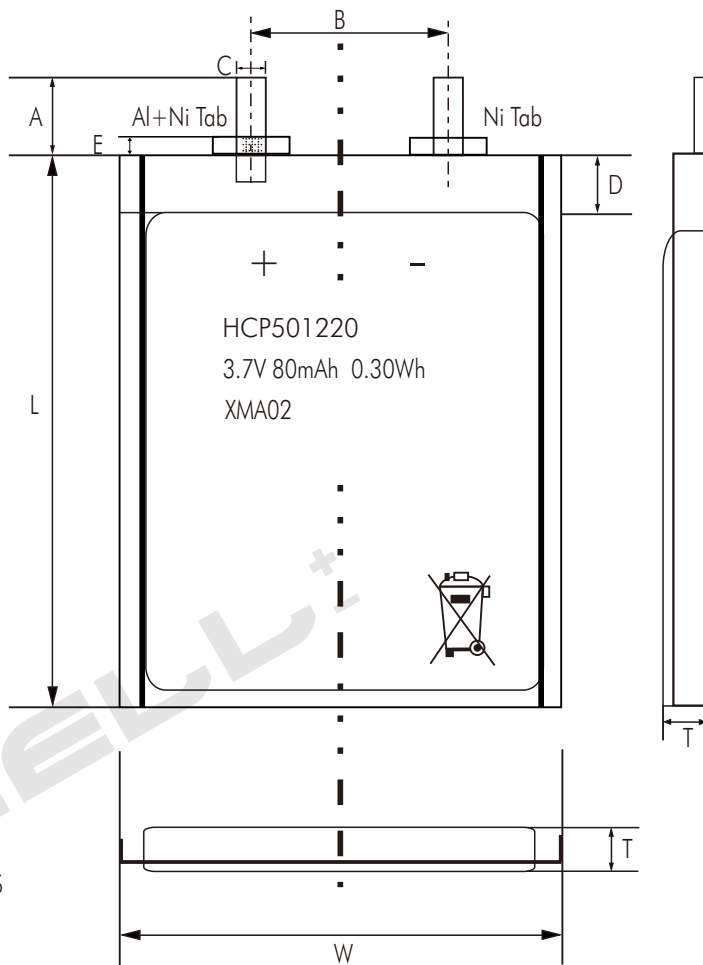
3. Electrical Parameter²

Nominal Voltage [V]		3.7 (rated)
Capacity [mAh]	Typ.	83 (0.2C @ 23±2°C)
	Min.	80 (0.2C @ 23±2°C)
Impedance Initial [mΩ]		≤440 @ AC 1kHz, 4.2V
Charge Current ³	Std.	@ 0.2C (16mA) @ 0~45°C
	Max.	@ 1.0C (80mA) @ 15~45°C
Discharge Current	Std.	@ 0.2C (16mA) @ -20~60°C
	Max.	@ 1.0C (80mA) @ 10~60°C
	Pulse	@ 2.0C (160mA) @ 10~60°C, 3-4ms
Discharge Cut-off Voltage [V]		3.0
Charge Cut-off Voltage [V]		4.2
Life Expectancy @ 0.2C, 23±2°C		≥80% after 500 cycles
Operating Temperature	Charge	0 to +45°C
	Discharge	-20 to +60°C
Storage Temperature ⁴	12 Months ≥80%	-10 to +25°C
	3 Months ≥85%	-20 to +35°C
	1 Month ≥90%	-20 to +45°C

4. Date Code Nomenclature



5. Mechanical Drawing (Not in Scale)



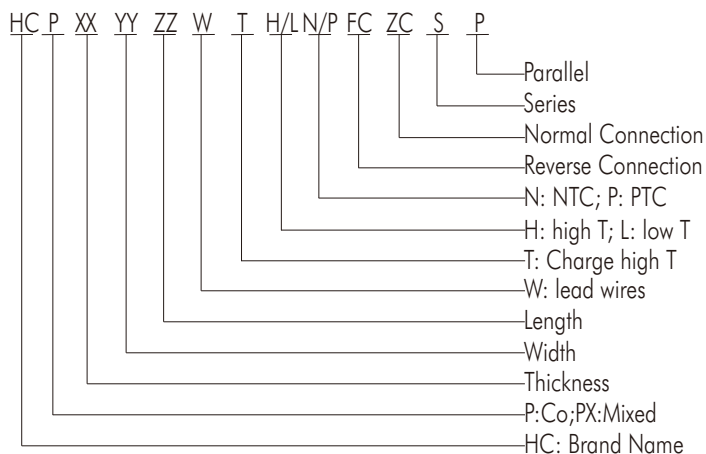
6. Safety Standards

- IEC62133-2017(TUV-CB), UN38.3, UL1642, BSMI, KC, PSE, BIS
- MSDS, GB31241, REACH, RoHS, WERCS, CE, FCC

7. Delivery Status

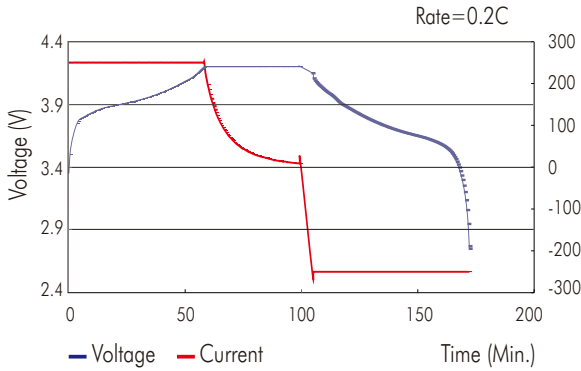
Cell Voltage [V]	3.70-3.95
Cell Capacity [%]	30-70

8. Model No. Nomenclature

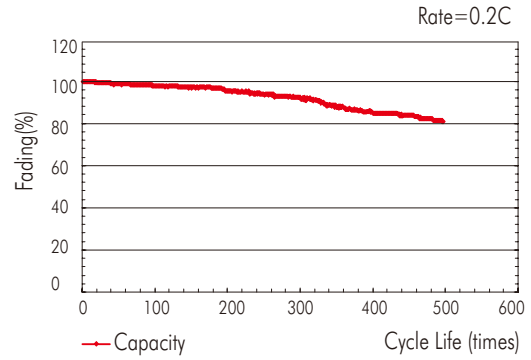


9. Curves

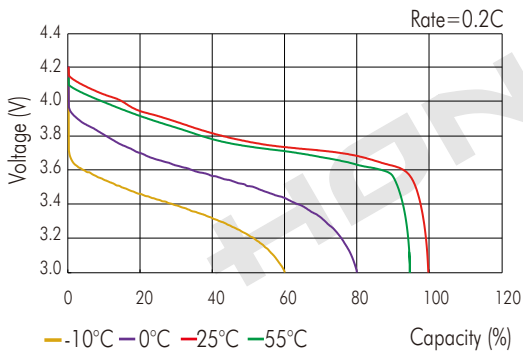
Charge & Discharge ($23\pm 2^\circ\text{C}$)



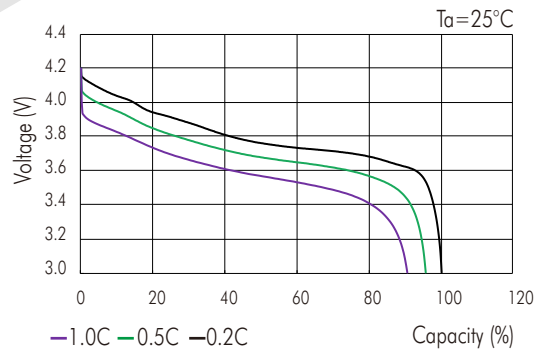
Cycle Life ($23\pm 2^\circ\text{C}$)



Discharge Characteristics (by Temp.)



Discharge Characteristics (by rate)



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

²: Technical information and contents in this datasheet are for reference purpose only but do NOT constitute any warranty or presentation and subject to change without prior notice. For most current information and further details, please contact us

***³: Charging the cell initially with Constant Current (CC) at 0.2C and then with Constant Voltage (CV) at 4.2V till charge current declines to 0.02C.

***⁴: At SOC 50%, cell capacity recovery rate in time VS %, battery is always recommended to be stored at $23\pm 2^\circ\text{C}$

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