

1. Data Sheet<sup>1</sup>

Model Number: HCF-18650

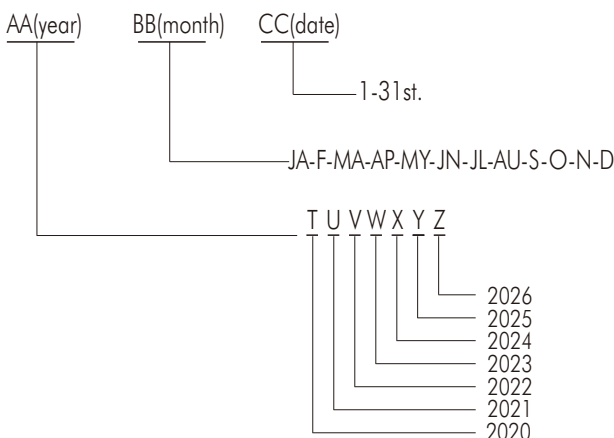
2. Physical Characteristics

▶ Diameter[mm]	D	18.45±0.15
▶ Length[mm]	L	65.30±0.15
▶ Weight Approx. [g]		43.50

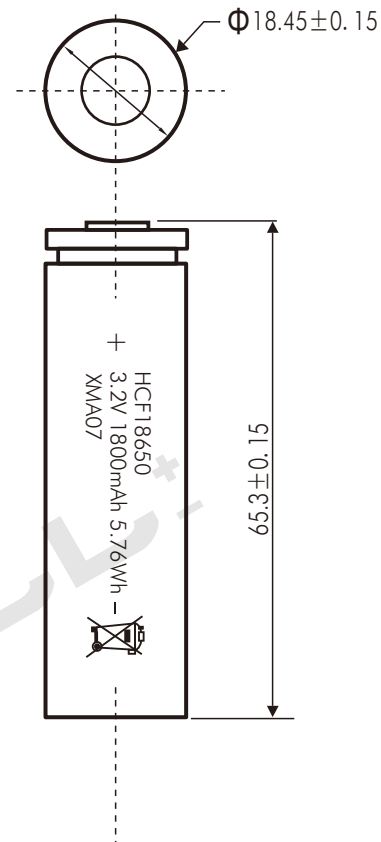
3. Electrical Parameter<sup>2</sup>

▶ Nominal Voltage [V]		3.2 (rated)
▶ Capacity [mAh]	Typ.	1800 (0.2C @ 23±2°C)
	Min.	1750 (0.2C @ 23±2°C)
▶ Impedance Initial [mΩ]		≤25 @ AC1kHz, 4.2V
▶ Charge Current <sup>3</sup>	Std.	@ 0.2C (360mA) @0~60°C
	Max.	@ 0.5C (900mA) @10~60°C @ 1.0C (1800mA) @25~60°C
▶ Discharge Current	Std.	@ 0.2C (360mA) @-20~60°C
	Max.	@ 0.5C (900mA) @-20~60°C @ 1.0C (1800mA) @0~60°C
		@ 3.0C (5400mA) @20~60°C
	Pulse	@ 5.0C (9000mA) @20~60°C
▶ Discharge Cut-off Voltage [V]		2.0
▶ Charge Cut-off Voltage [V]		3.65
▶ Life Expectancy @0.5C, 23±2°C		≥80% after 1500 cycles
▶ Operating Temperature	Charge	0 to +60°C
	Discharge	-20 to +60°C
▶ Storage Temperature <sup>4</sup>	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)



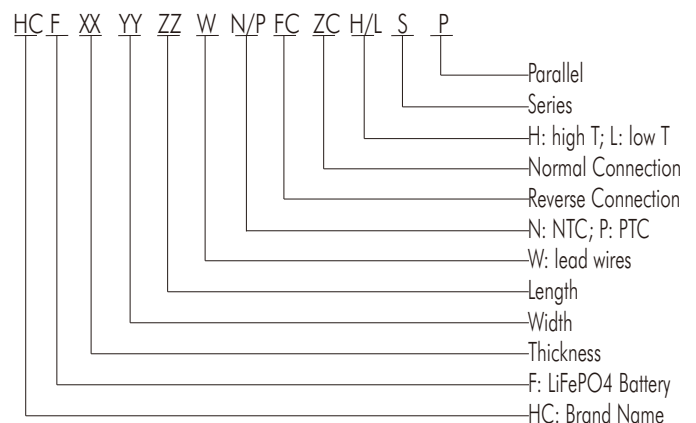
6. Safety Standards

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

7. Delivery Status

▶ Cell Voltage [V]	≥3.0
▶ Cell Capacity [%]	≥50

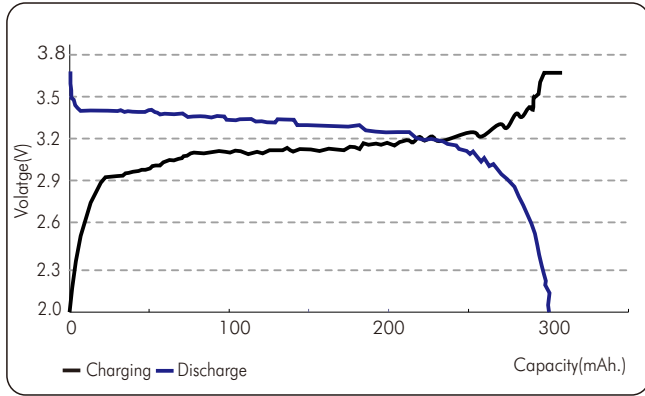
8. Model No. Nomenclature



9. Curves (Reference)

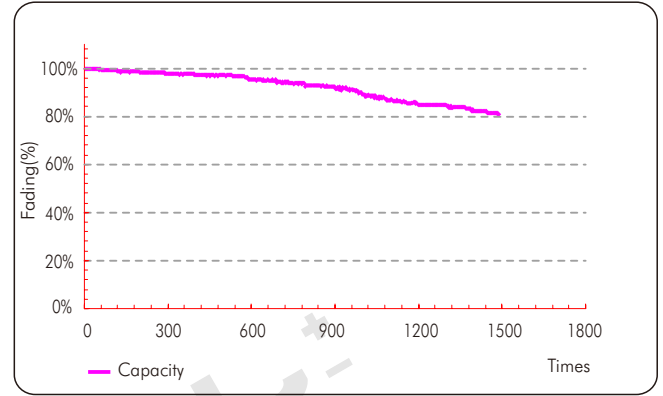
Charge & Discharge (23±2°C)

Rate=0.2C



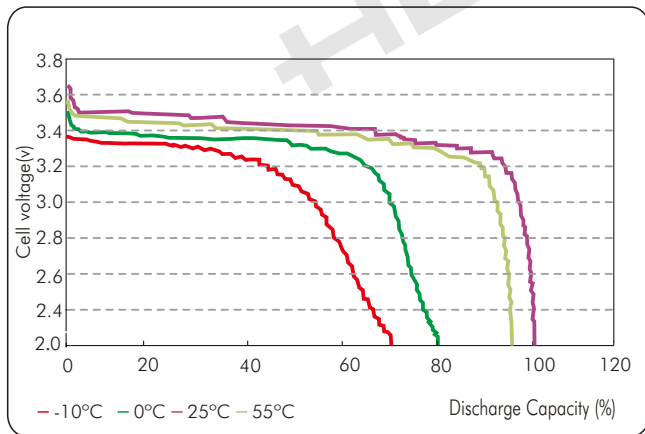
Cycle Life (23±2°C)

Rate=0.5C



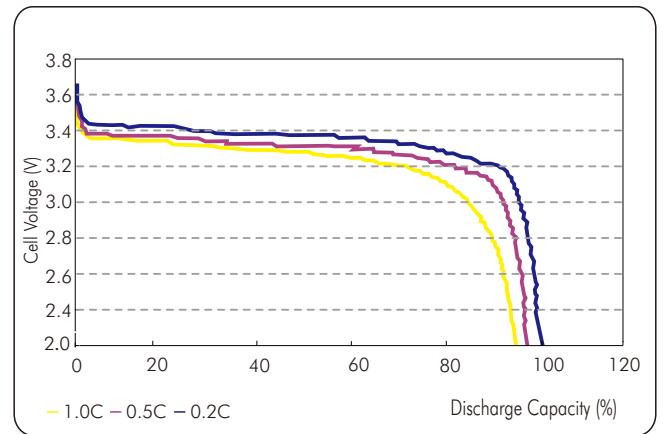
Discharge Characteristics (by Temp.)

Rate=0.2C



Discharge Characteristics (by rate)

Ta=25°C



\*\*\*<sup>1</sup>: Prior to read Honcell "Handling Precautions and Guidelines For LiFePO<sub>4</sub> Rechargeable Batteries" subject to change without prior notice

\*\*\*<sup>2</sup>: 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\*\*\*

\*\*\*<sup>3</sup>: Charging the cell initially with Constant Current (CC) at 0.2C and then with Constant Voltage (CV) at 3.65V till charge current declines to 0.01C.

\*\*\*<sup>4</sup>: At SOC 50%, cell capacity recovery rate in time VS %, battery is always recommended to be stored at 23±2°C

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