Heat-Resistant Energy, Built to Endure

HL18650T

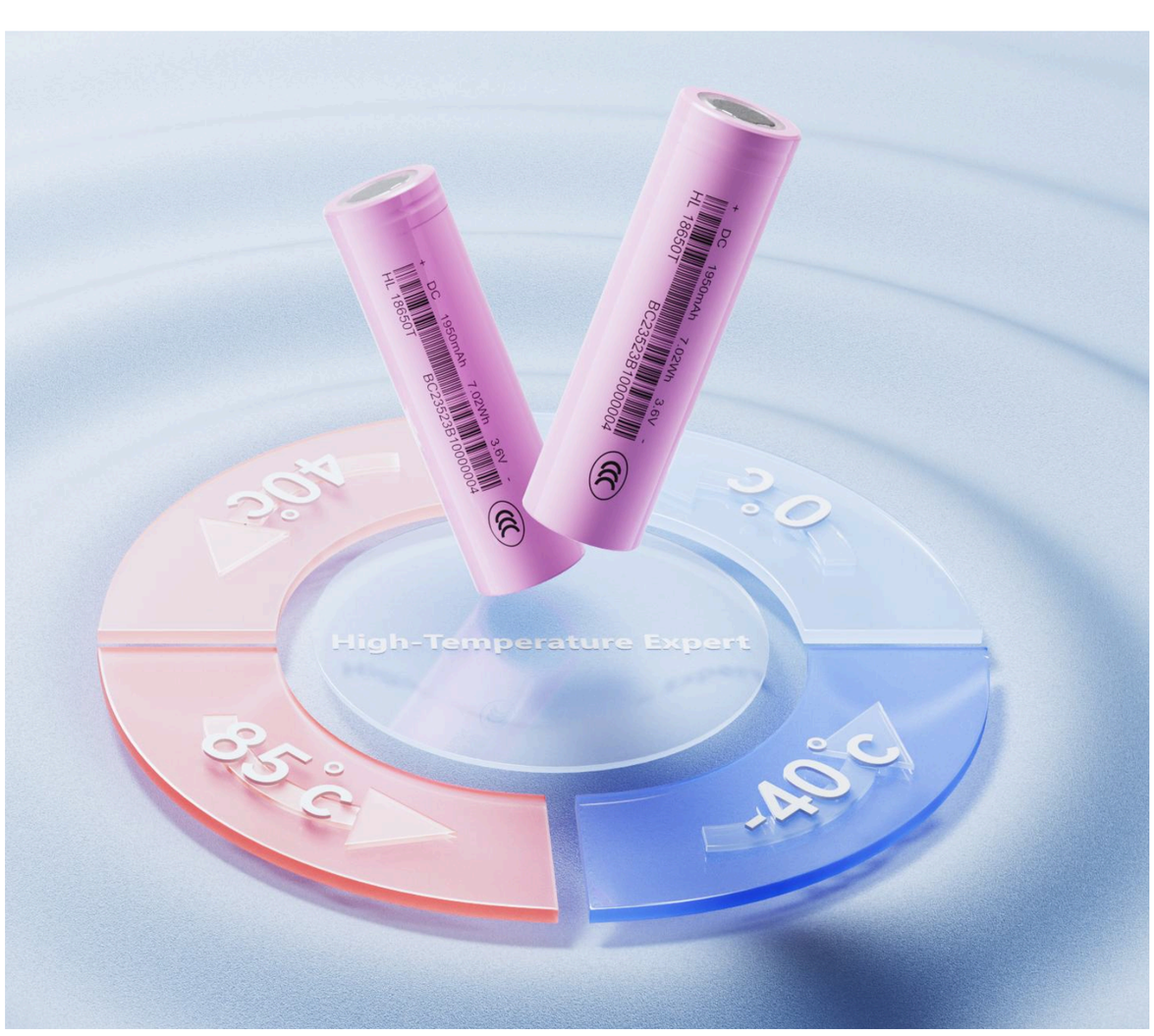
Extreme Temperature Range

-40°C to 85°C

Operates from -40°C to 85°C with stable output, perfect for harsh environments.

High-Temperature Stability

Retains over 90% capacity after 48 days at 80°C for reliable performance.



Reliability under vibration

Performs stably under high-frequency vibrations, ideal for automotive, drones, and military devices.

Retains over 90% capacity after 500 cycles, ensuring long-term reliability.

90%

Delivers 3.9V/6W at -30°C, even after high-temperature storage.

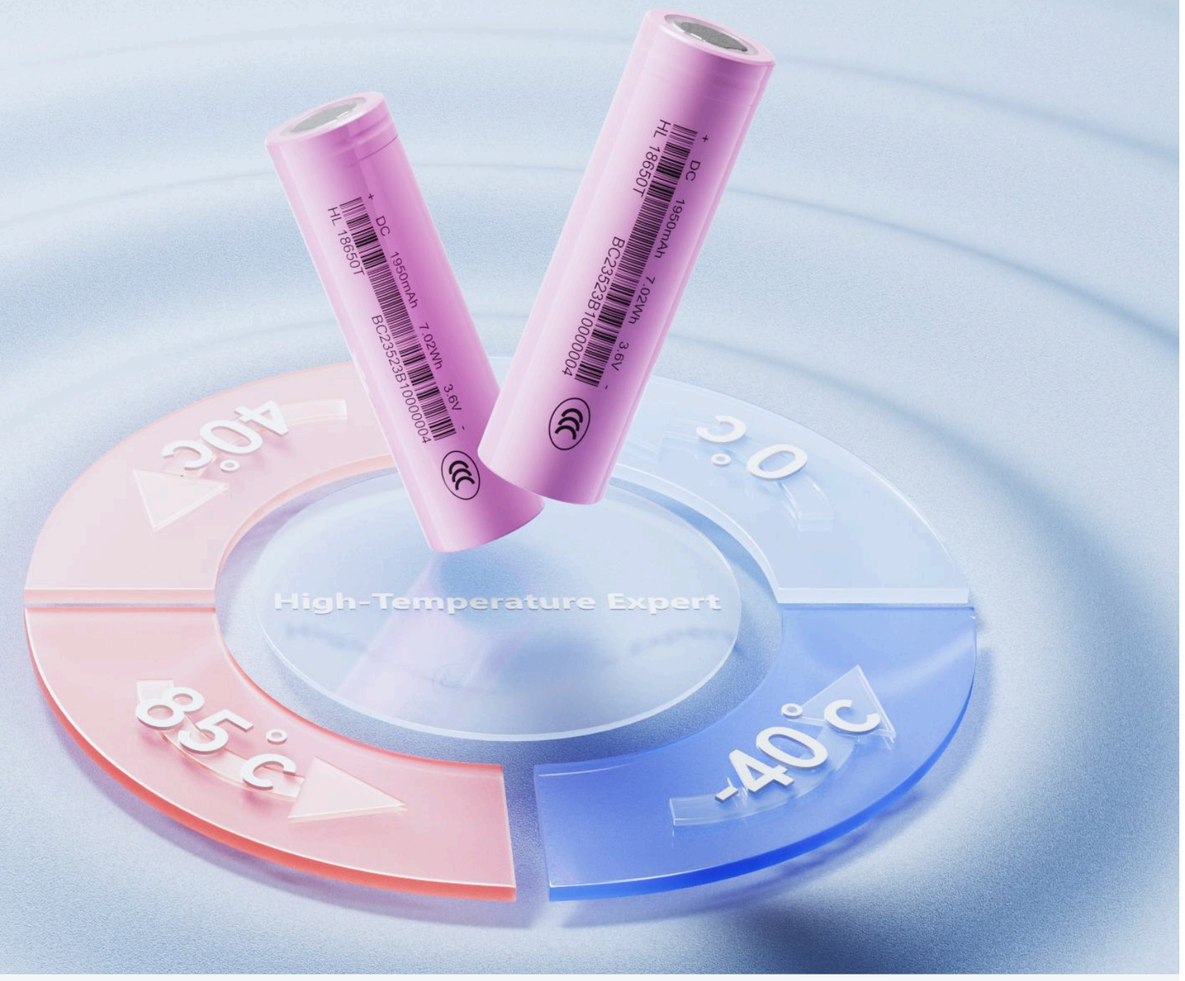
-30°C

Supports 5C continuous discharge, meeting high-power application needs.

5C

Product Specifications

HL18650T



Dimension

Diameter	18.3±0.2mm	Height	64.9 ± 0.3 mm

Capacity

Min capacity (0.2C)	1950 mAh	Typical capacity (0.2C)	2000 mAh

Voltage and current

Nominal voltage	3.60V	Working voltage	2.75V-4.20V
Max charge / discharge current	1.95A / 10A		

Working temperature

Charge	-20~60℃	Discharge	-40~85℃

Other

Cycle life	> 300	-40℃ capacity (0.2C)	≈ 60%
Recovery capacity after 1000h 80℃ aging	> 90%		

Explore

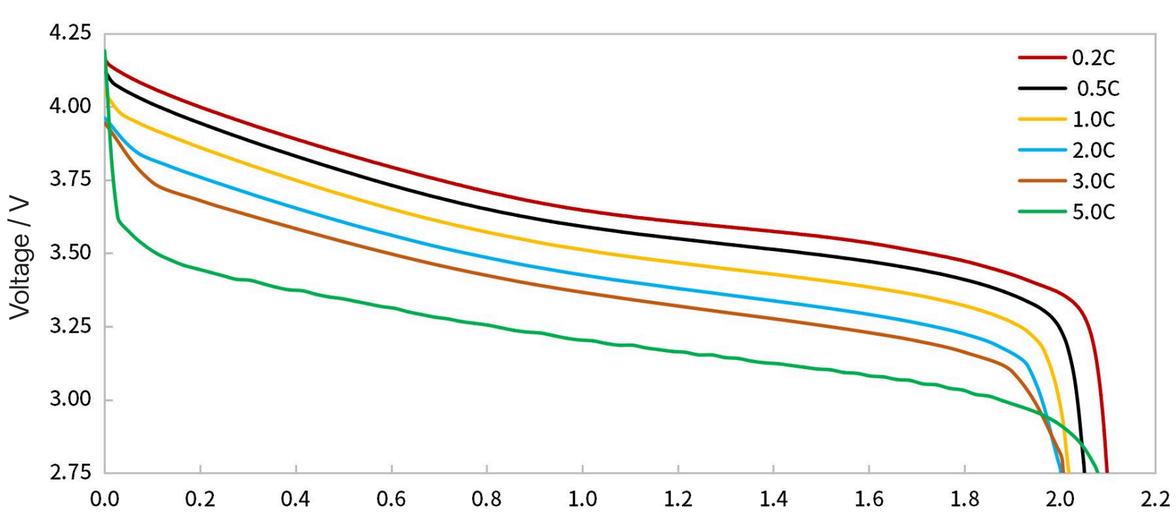
HL18650T

Performance Insights

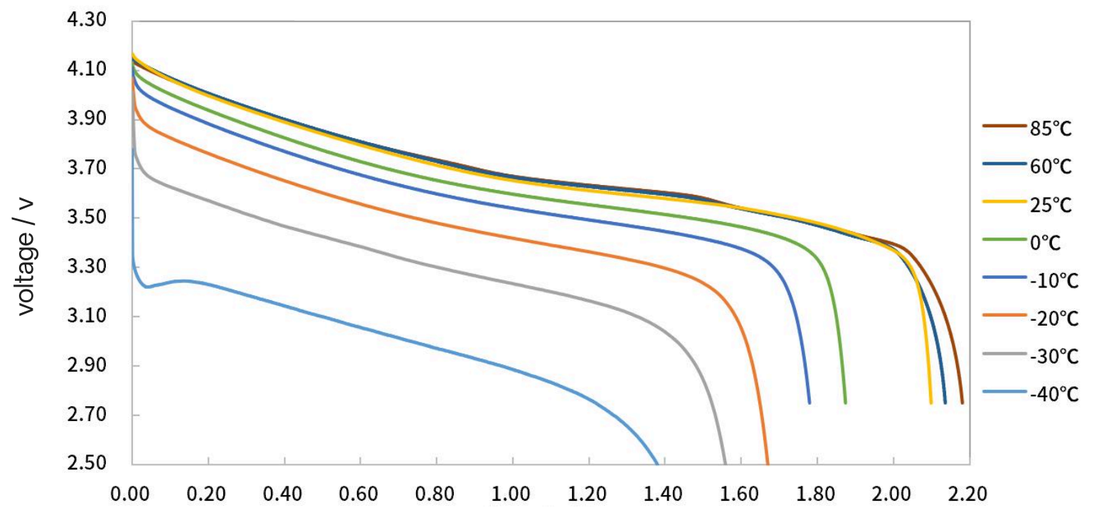
Excel in Extreme Heat and Cold:
Unmatched Performance.



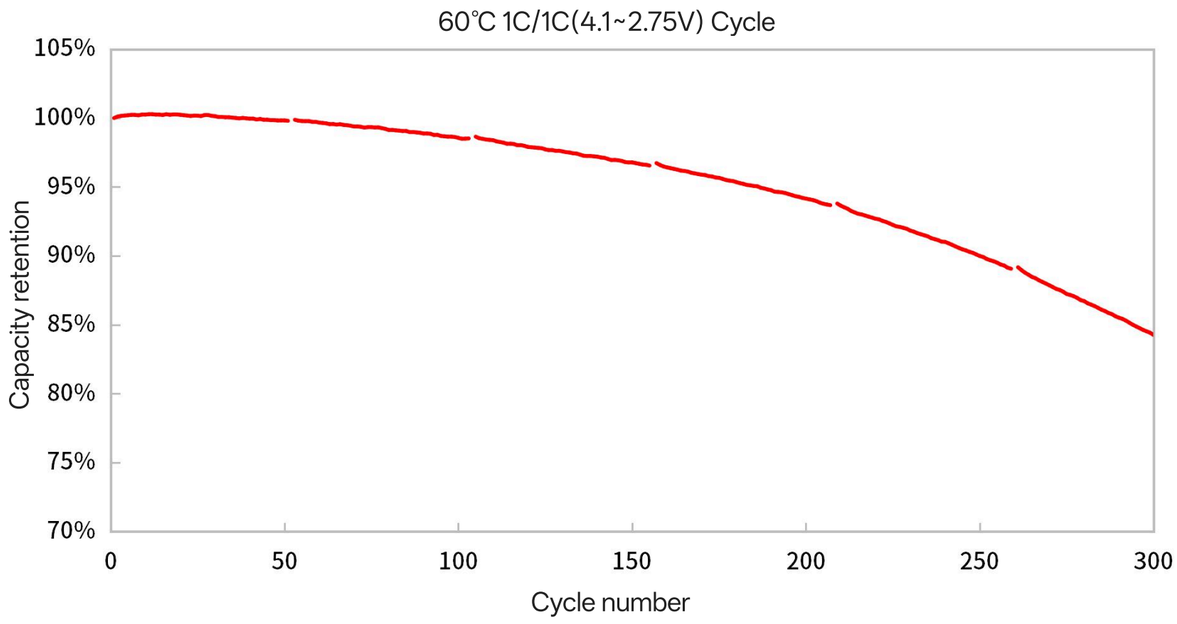
Rate discharge



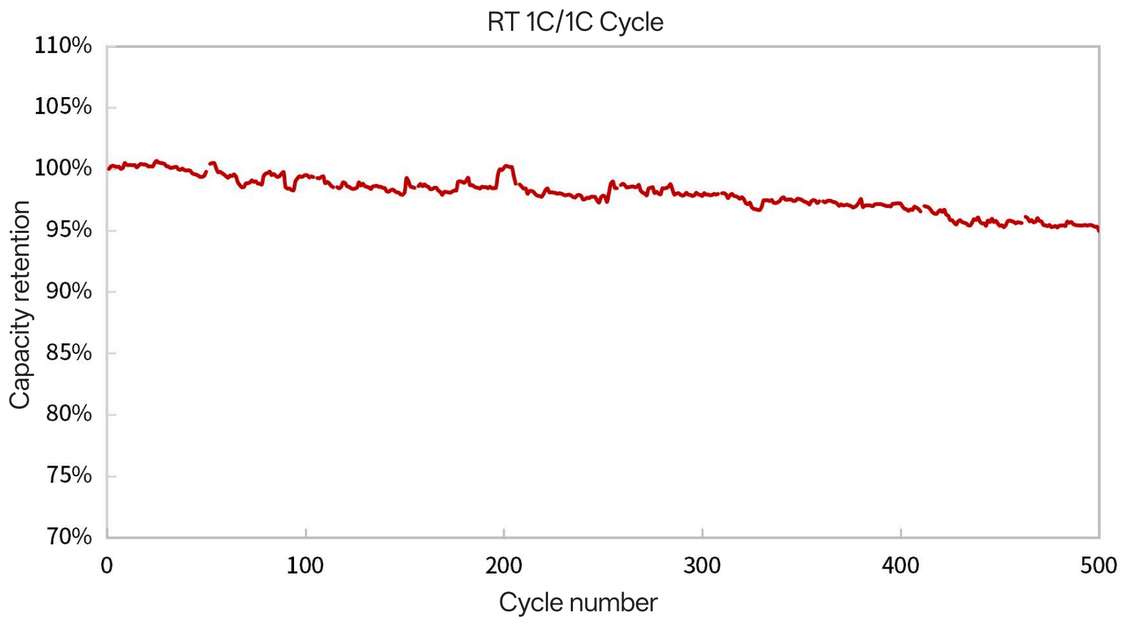
Discharge curve@different temperature



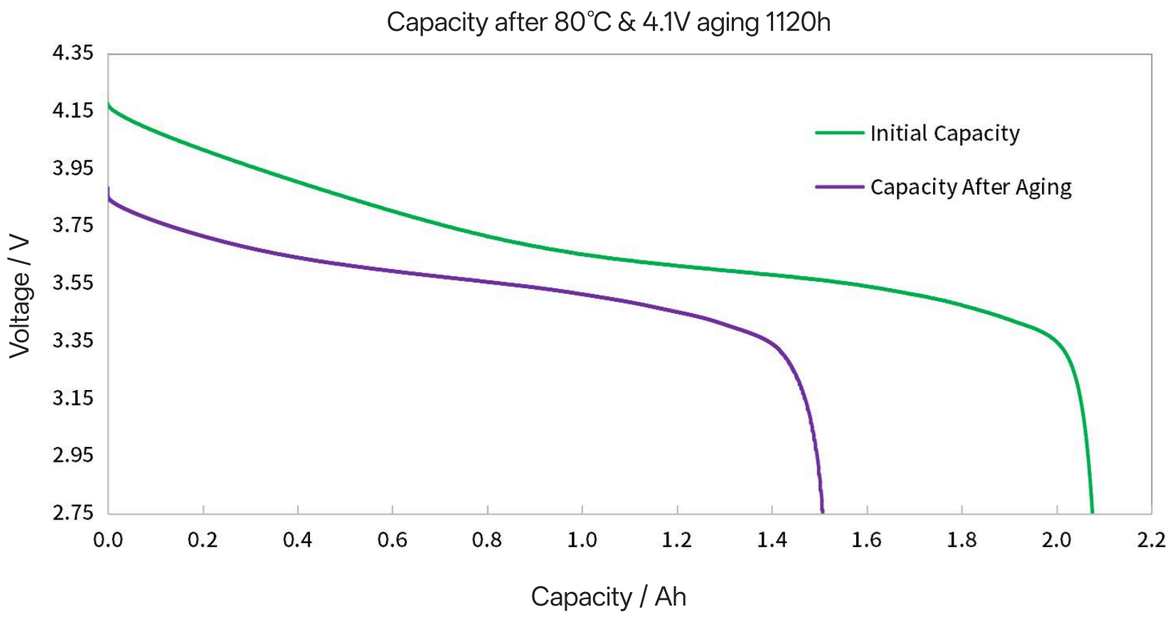
Cycle at high temperature



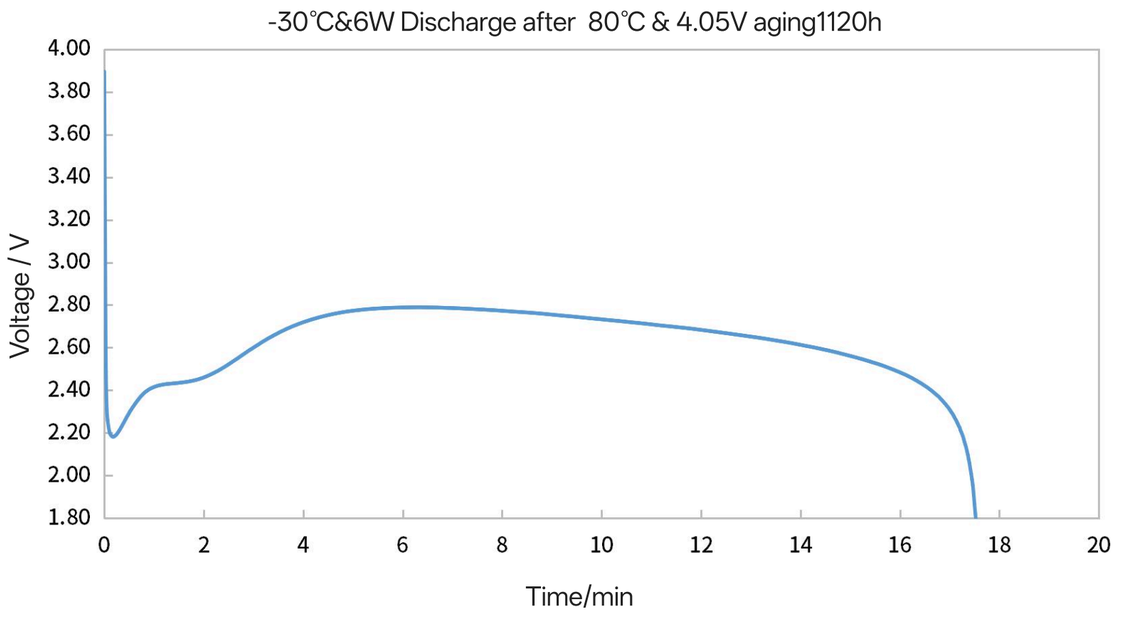
Cycle at room temperature



80℃&4.1V aging



Low temperature discharge after the end of life



What we’re enabling with

HL18650T



Reliable Power for Automotive T-Box

Automotive T-box systems require stable power in extreme temperatures and under vibrations. The HL18650T battery ensures seamless connectivity and efficient operation in the toughest conditions.

Optimized Power for GPS Tracking

Logistics GPS trackers require stable power for precise tracking in harsh environments. The HL18650T battery supports continuous operation to optimize fleet management and delivery efficiency.





Reliable Energy for Military Satellite Phones

Military satellite phones demand stable power in extreme environments to ensure uninterrupted communication. The HL18650T battery provides dependable energy for mission-critical operations in challenging conditions.

Automotive Electronic

Medical Devices

Security & Monitoring

Field Instruments

Logistics & Containers

Power Tools

Smart home

UltraXel Limited

UltraXel specializes in wide-temperature lithium-ion cells, provides innovative energy solutions for extreme environments to enhance product performance while powering diverse applications.



26
Years
Battery Expertise

50+
Countries
Global Reach

38
Invention Patents

6 Lines
Of Automated Production

100+
International Trusted Partnerships

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