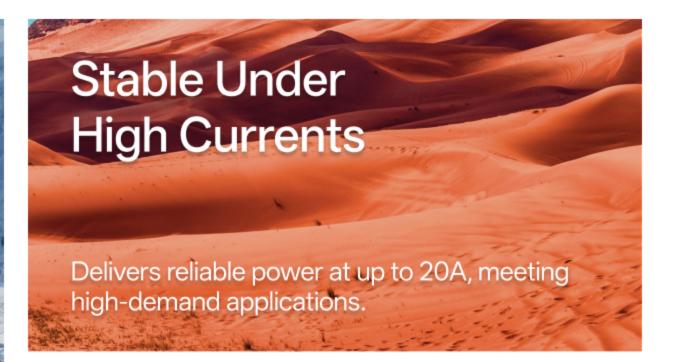
Unmatched Endurance for Longer Journeys in **Thermal Extremes**

HL18650Y





Complies with CB, UL, CCC, BIS, PSE, KC,

Certified for Global Standards

BSMI and other international certifications for safe and reliable use.

Capable of retaining over 90% recoverable capacity after 30 days of 4.10V storage at 85°C.

90%

Retains over 85% capacity after 500 cycles, ensuring long-term reliability.

500 Cycles

Maintains 70% capacity at -40°C, ensuring reliable performance in freezing conditions.

-40°c

W.UltraXel

18650Y Flyer

2025

Features

Product Specifications





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18.25±0.2mm ----- 64.95 ± 0.2 mm Height ---Diameter

Capacity

Min capacity (0.2C) Typical capacity (0.2C) 3200 mAh 3100 mAh

Voltage and current

Nominal voltage Working voltage 2.50V~4.20V 3.60V

Max charge / 3.2A / 10A discharge current

Working temperature

Charge -20~60°C Discharge -40~85°C

Other

Cycle life ---> 500 -40°C capacity (0.2C) ≈ 70%

Recovery capacity > 90%

after 30 days 80°C aging

Explore

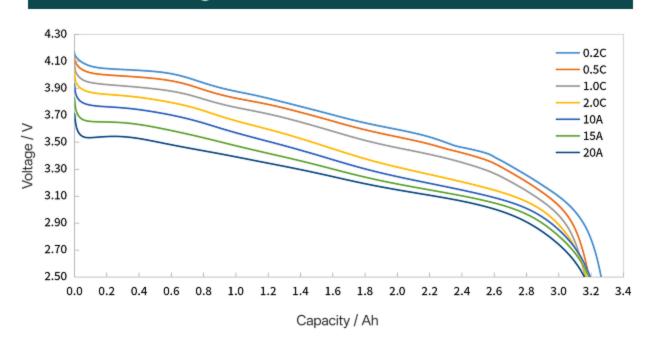
HL18650Y

Performance Insights

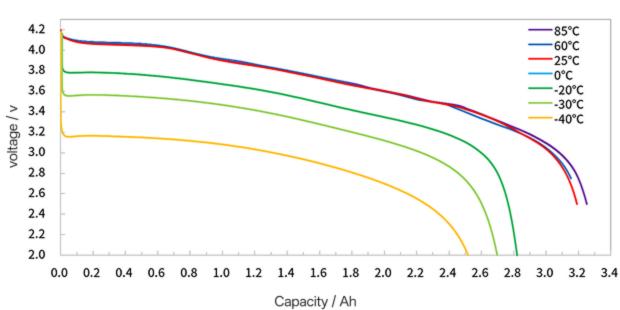
Defy Temperature Limits: Consistent Power Anywhere.



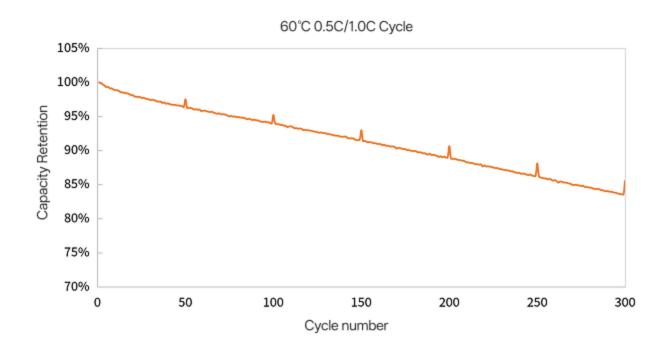
Rate discharge



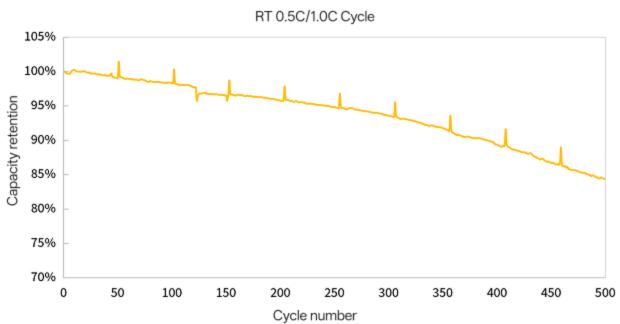
Discharge at different temperature



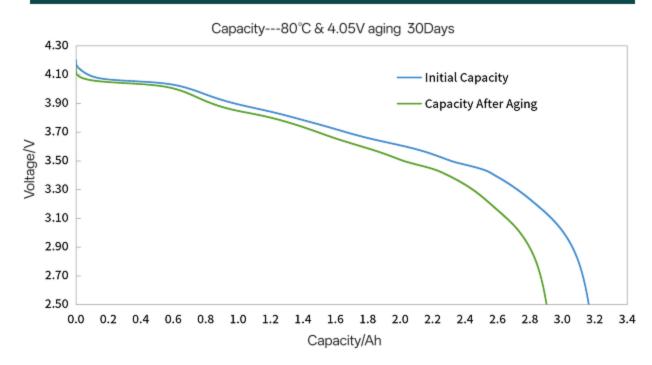
Cycle at high temperature



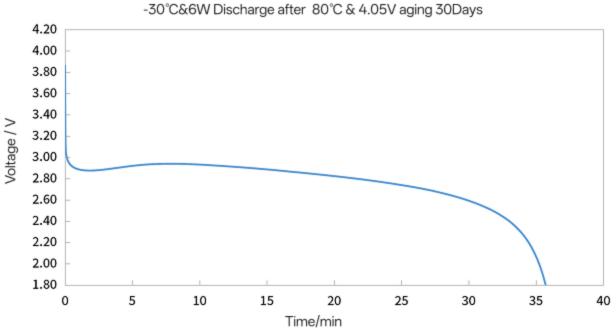
Cycle at room temperature



80°C&4.05V aging



80°C&4.05V aging



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What we're enabling with HL18650Y



Reliable Power for Industrial Handheld Scanners

Industrial handheld scanners require durable energy for heavy use in demanding environments. The HL18650Y battery ensures efficient and uninterrupted operation for industrial applications.

Stable Energy for Outdoor Surveillance

Outdoor surveillance systems demand reliable power for continuous monitoring in extreme conditions. The HL18650Y battery ensures dependable monitoring for enhanced security.





Durable Power for Industrial Walkie-Talkies

Industrial walkie-talkies require stable power for clear and reliable communication in harsh environments. The HL18650Y battery supports seamless communication for critical operations.



Security & Monitoring



Medical Devices



Industrial Handhelds



Field Instruments



Mineral Exploration



Outdoor Military Gear



Logistics & Containers **W**UltraXel

18650T Flyer

2025

Features

5

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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