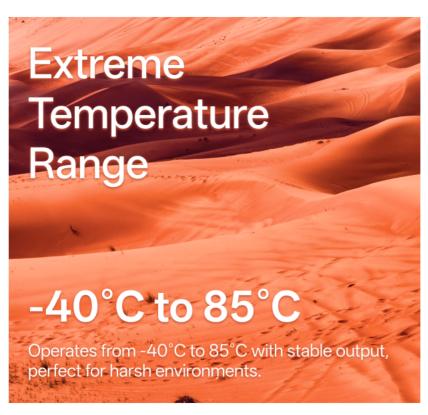
Heat-Resistant Energy, **Crafted for Durability in** Rugged Environment

HL14500R





Long Endurance Life at **High Temperature**

Retain 75% capacity after 1C/2C 500cycles at 60°C



Retains over 90% capacity and 3.80V OCV after 48 days at 80°C for reliable performance.

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

500 Cycles

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

Product Specifications

HL14500R



Diameter 14.2±0.2mm Height $48.9 \pm 0.3 \, \text{mm}$

Capacity

Min capacity (0.2C) 700 mAh Typical capacity (0.2C) 750 mAh

Voltage and current

3.60V Working voltage 2.75V-4.20V Nominal voltage

0.7A / 3.5A

Max charge / discharge current

Working temperature

-20~60°C Discharge -40~85°C Charge

Other

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

Recovery capacity > 90%

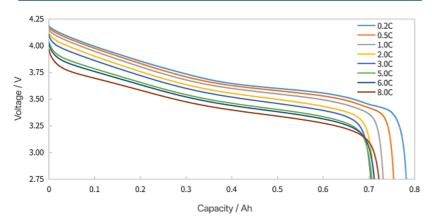
after 30 days 80°C aging

₩.UltraXel

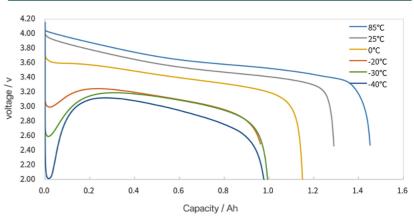
14500R Flyer 2025 Features



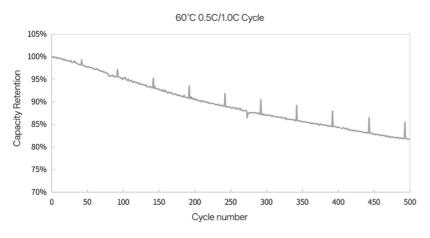
Rate discharge



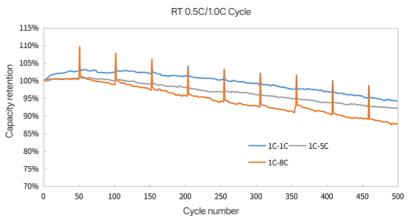
Discharge at different temperature



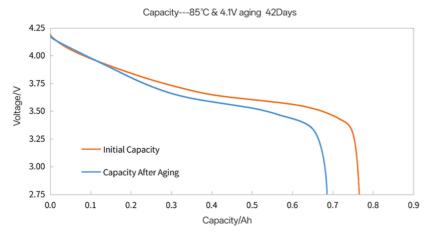
Cycle at high temperature



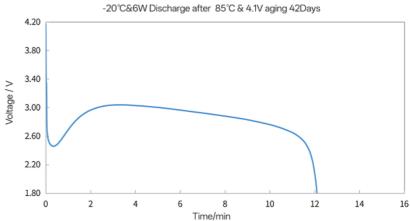
Cycle at room temperature



85°C&4.1V aging



85°C&4.1V aging



₩.UltraXel

14500R Flyer

What we're enabling with **HL14500R**



Reliable Power for **Automotive T-Box**

Automotive T-box systems require stable power in extreme temperatures and under vibrations. The HL14500R 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 14500R battery supports continuous operation to optimize fleet management and delivery efficiency.



Compact Power for Demanding Outdoor Instruments

The HL14500R cell is designed for outdoor measurement devices requiring a compact form, wide temperature tolerance, and dependable performance. With excellent heat resistance, low-temperature operability, and top-tier safety, it's the ideal power solution for extreme environments.



Automotive Electronics



Security & Monitoring



Medical **Devices**



Industrial Handhelds



Outdoor Instruments



Mineral Exploration



Smart Logistics Equipment

WultraXel 14500R Flyer 2025 Features

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.



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Years Battery Expertise **50**₊

Countries Global Reach 38

Invention Patents

6 Lines

Of Automated Production

100+

International Trusted Partnerships

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