# Ultra Safe Energy, **Enhanced for Maximum Durability in Extreme Conditions**

HL14500S





# Retains over 90% capacity and 3.80V OCV

# **High-Temperature Stability**

after 48 days at 80°C for reliable performance.

Retain 70% capacity after 1C/2C 800cycles at 60°C

Retains over 80% capacity after 1000 cycles, ensuring long-term reliability.

1000 Cycles

Supports 8C continuous discharge, meeting high-power application needs.

8<sub>c</sub>

**Dimension** 

Capacity

Voltage and current

Working temperature

after 30 days 80°C aging

14500S Flyer 2025 Features



Diameter 14.2±0.2mm Height 48.9 ± 0.3 mm

Min capacity (0.2C) 480 mAh Typical capacity (0.2C) 500 mAh

Nominal voltage 3.20V Working voltage 2.00V-3.65V

Max charge / 0.48A / 2.40A discharge current

Charge -20~60°C Discharge -40~85°C

 Other
 > 1000
 -40°C capacity (0.2C)
 ≈ 60%

 Recovery capacity
 > 70%

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14500S Flyer 2025 Features

## **Explore**

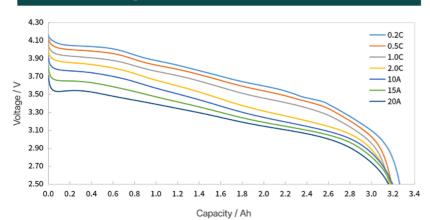
# **HL14500S**

### Performance Insights

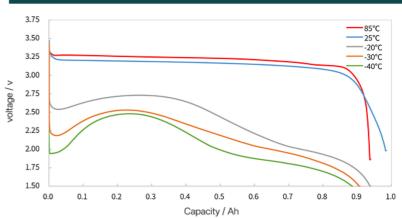
Defy Temperature Limits: Consistent Power Anywhere.



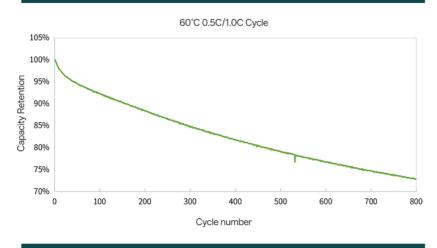
#### Rate discharge



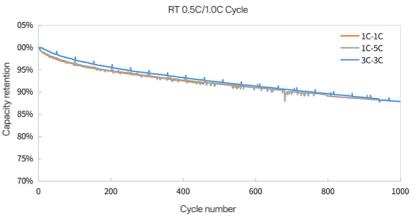
#### Discharge at different temperature



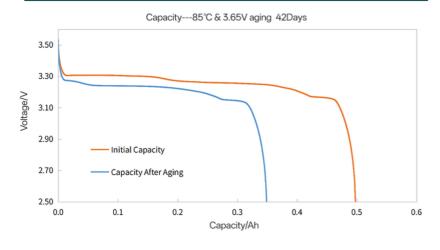
#### Cycle at high temperature



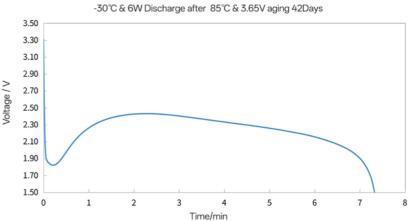
#### Cycle at room temperature



#### 85°C&3.65V aging



#### 85°C&3.65V aging



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# What we're enabling with HL14500S



#### Reliable Power for Automotive T-Box

Automotive T-box systems require stable power in extreme temperatures with uncompromised safety. The HL14500S battery delivers reliable connectivity, efficient performance, and advanced protection features to ensure secure operation even in the harshest conditions.

#### Optimized Power for GPS Tracking

Logistics GPS trackers require stable power for precise tracking in harsh environments. The HL14500S battery supports continuous operation to optimize fleet management, delivery efficiency and safety.



# A Superior Alternative to NiMH Batteries

The HL14500S is an ideal upgrade from traditional NiMH batteries, offering higher energy density, superior safety, excellent durability in extreme temperatures, and minimal self-discharge. It's a smarter, more reliable power solution for demanding applications.



Security & Monitoring



Medical Devices



Industrial Handhelds



Outdoor Instruments



Mineral Exploration



Military Gear



Smart Logistics Equipment **WultraXel** 18650T 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**<sub>+</sub>

Countries Global Reach 38

**Invention Patents** 

6 Lines

Of Automated Production

100+

International Trusted Partnerships

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