

Efficient Energy for Every Condition

—————> HL18650V

Extreme Temperature Range



-40°C to 85°C

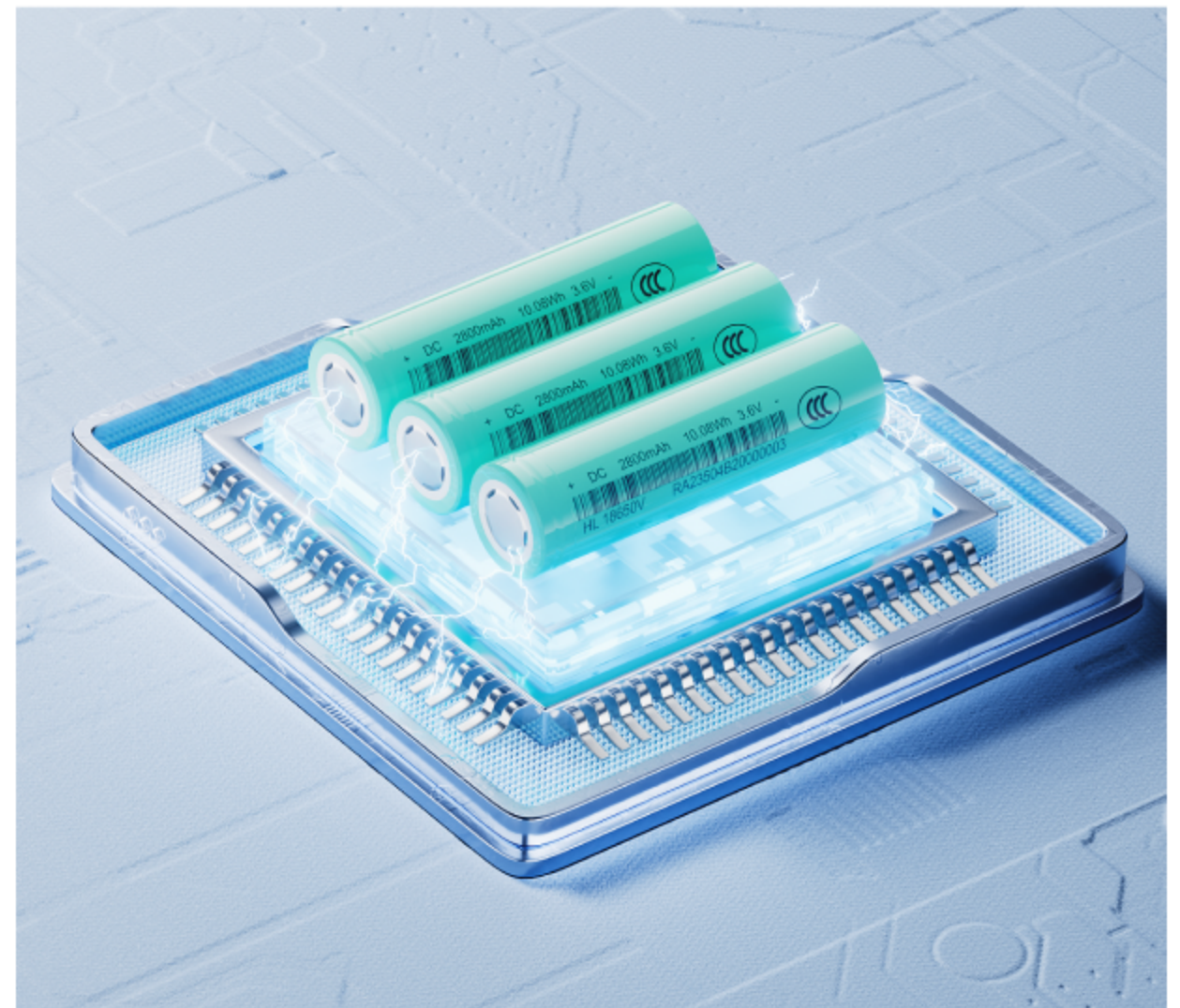
Operates from -40°C to 85°C with stable output, perfect for harsh environments.

Reliable at High Temperatures

Retains over 85% capacity and stable voltage after 42 days at 80°C, ensuring reliable operation.

Complies with Global Standards

Complies with CB, UL, CCC, BIS, PSE, KC, BSMI and other international certifications for safe and reliable use.



Delivers 3.9V/6W at -30°C after high-temperature storage, ideal for cold environments.

-30°C

Supports 10A continuous discharge, meeting the needs of high-power applications.

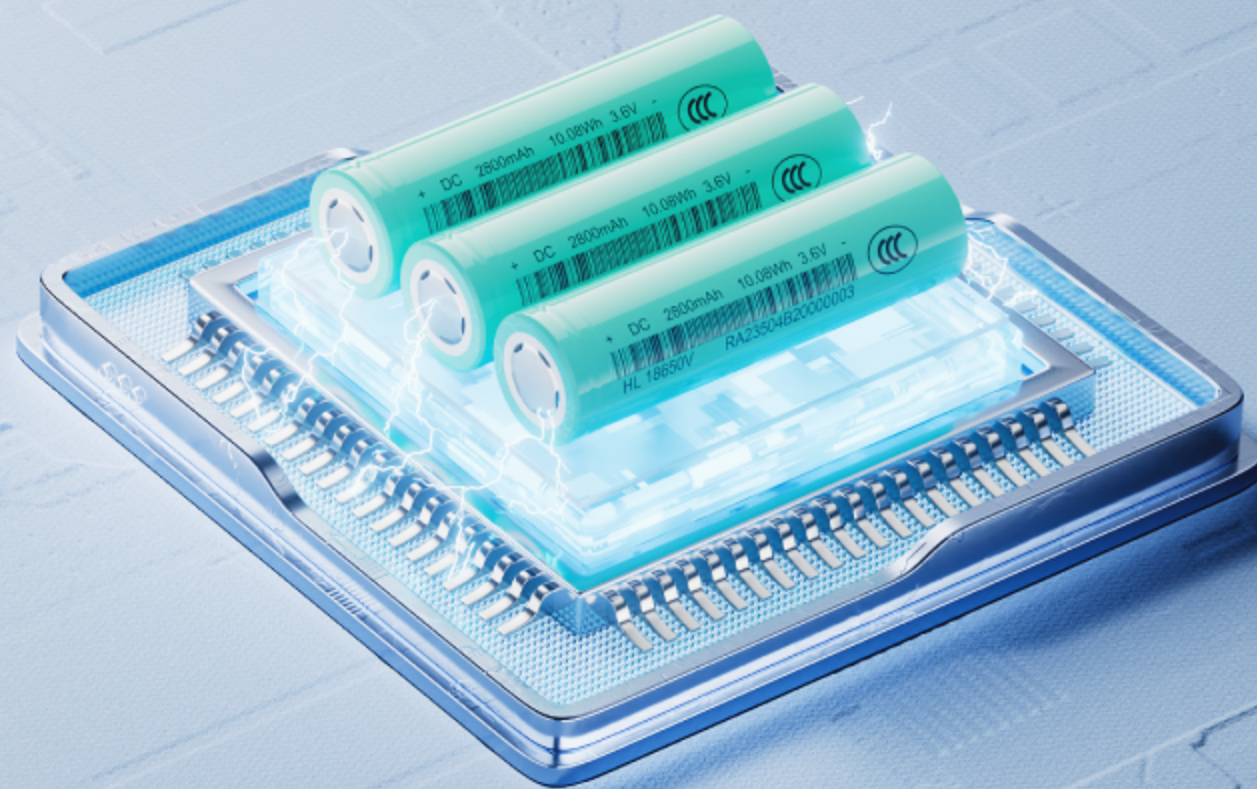
10_A

Capable of withstanding 3,000 float charge cycles at 60°C high temperature.

3000 Cycles

Product Specifications

HL18650V



Dimension

Diameter 18.3±0.2mm

Height 64.95 ± 0.2 mm

Capacity

Min capacity (0.2C) 2800 mAh

Typical capacity (0.2C) 2900 mAh

Voltage and current

Nominal voltage 3.60V

Working voltage 2.75V-4.20V

Max charge /
discharge current 1.4A / 10A

Working temperature

Charge -20~60°C

Discharge -40~85°C

Other

Cycle life > 500

-40°C capacity (0.2C) ≈ 70%

Recovery capacity
after 1000h 80°C aging > 85%

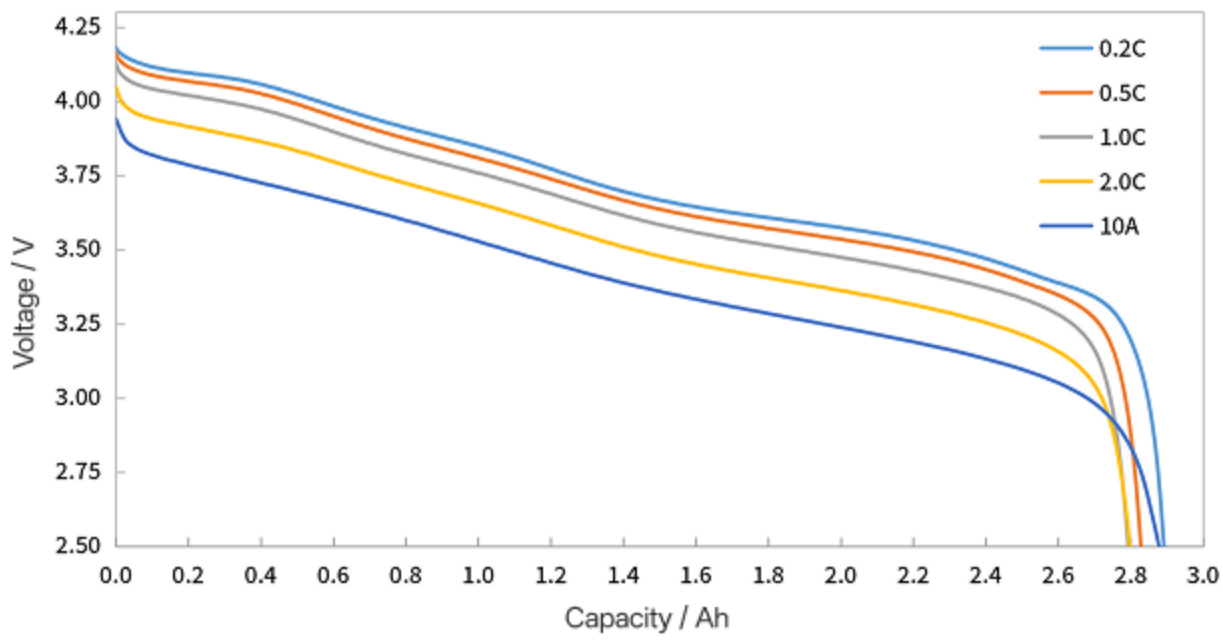


Explore

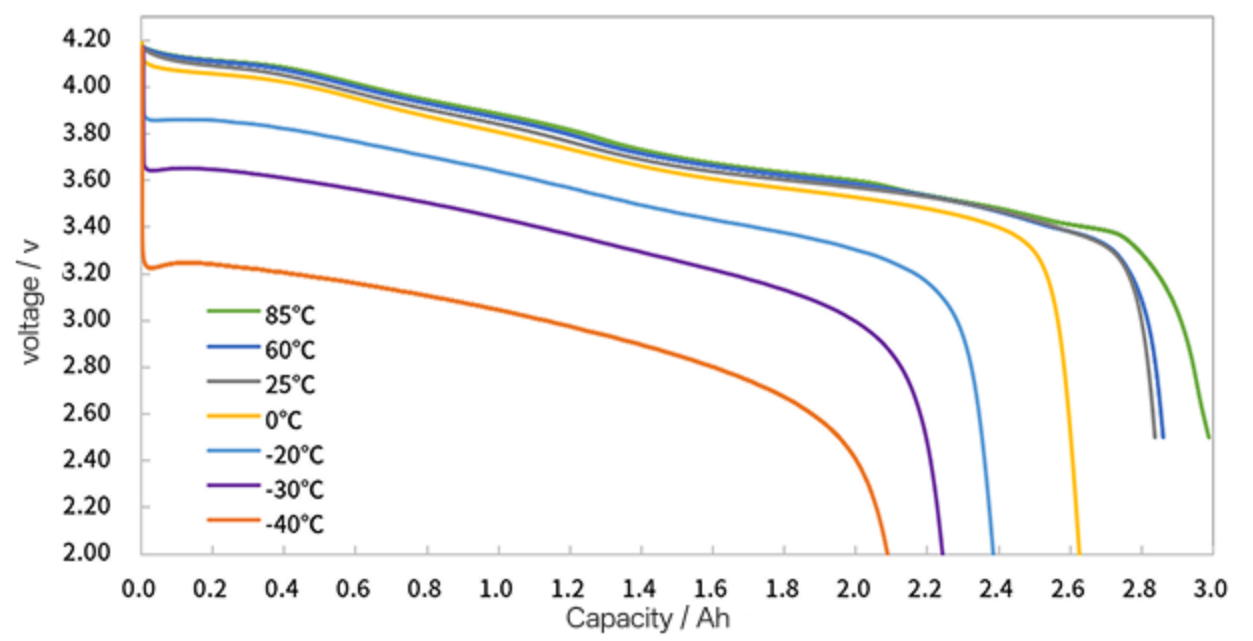
HL18650V Performance Insights

Reliable in All Seasons:
Superior Temperature Endurance.

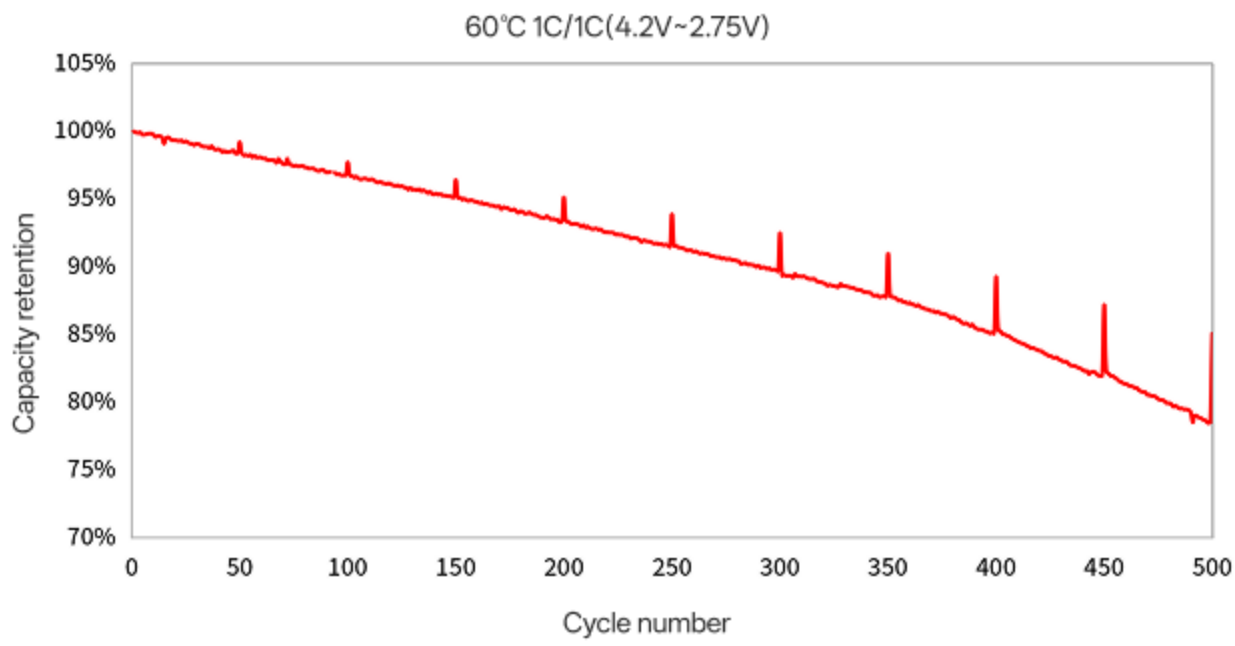
Rate discharge



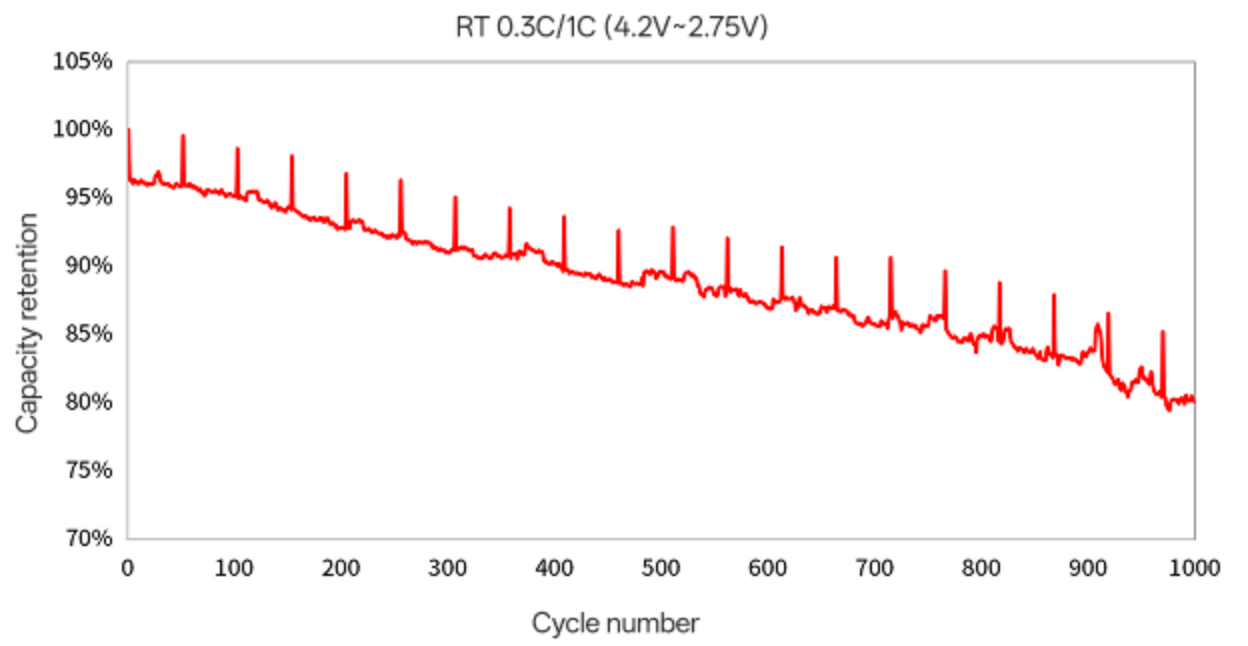
Discharge curve@different temperature



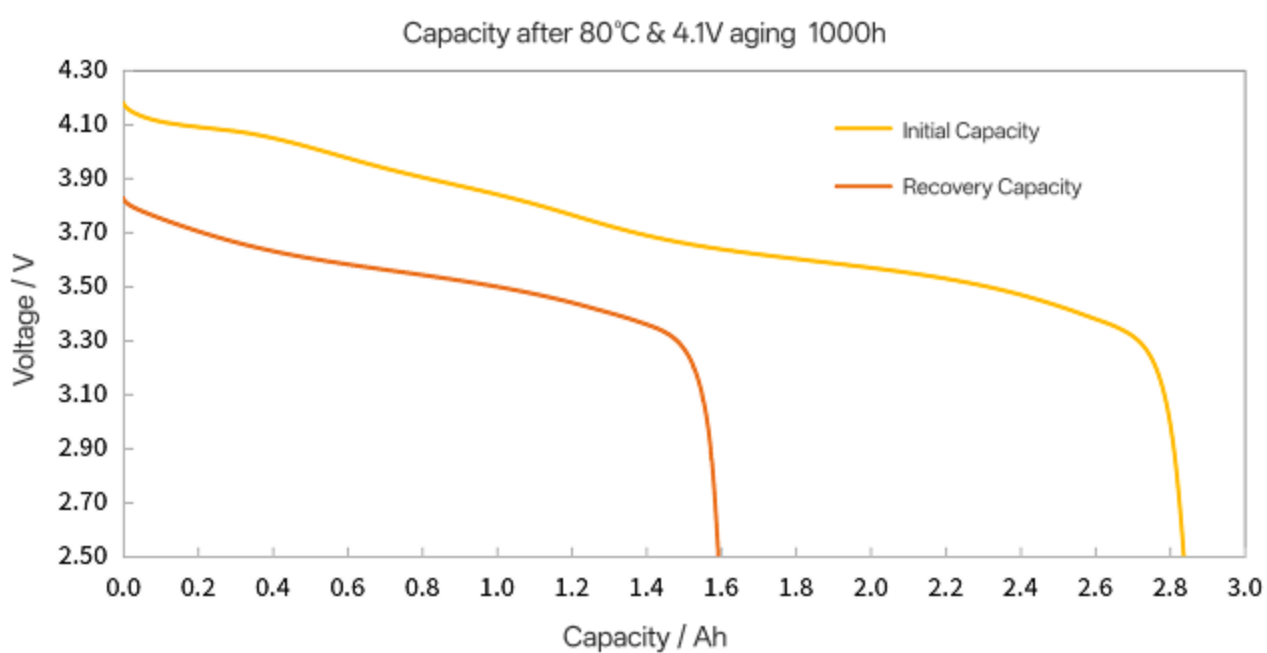
Cycle at high temperature



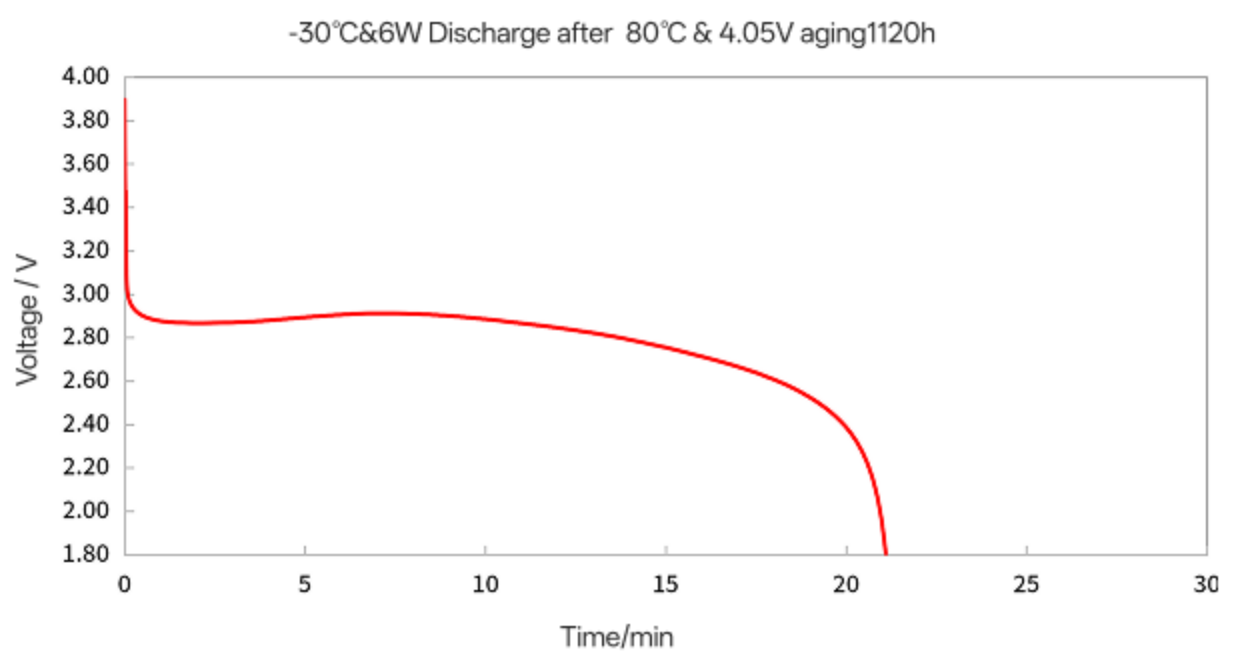
Cycle at room temperature



80°C&4.1V aging



80°C&4.1V aging



What we're enabling with HL18650V



Reliable Power for Industrial Handheld Scanners

Industrial handheld scanners demand stable energy for intensive operations in tough environments. The HL18650V battery ensures uninterrupted scanning for enhanced productivity and operational efficiency.

Stable Energy for Outdoor Surveillance

Outdoor surveillance systems require dependable power for continuous monitoring in extreme conditions. The HL18650V battery supports uninterrupted surveillance for enhanced security and reliability.



Dependable Power for Field Instruments

Field instruments like EDM devices require reliable energy for precise measurements in challenging conditions. The HL18650V battery ensures accurate operation for fieldwork efficiency.



Security & Monitoring



Medical Devices



Industrial Handhelds



Field Instruments



Mineral Exploration



Logistics & Containers



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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