

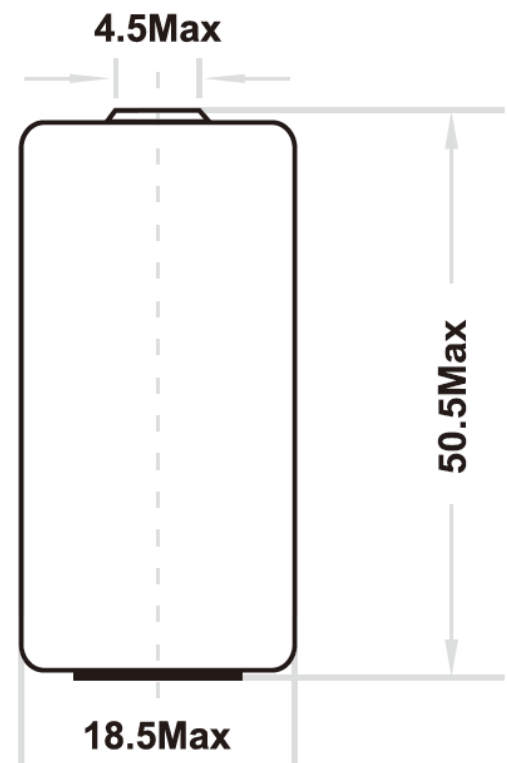


Advantages

Our lithium-ion battery delivers best-in-class energy density (> 620 Wh/kg) among chemical batteries. It has an open-circuit voltage ≥ 3.65 V, with an operating voltage range of 3.3–3.6 V. Its wide operating temperature range (-55 °C – +85 °C) ensures it will deliver consistent, long-term (10+ years at room temperature) performance in a variety of usage scenarios, including IoT, sensors, R&D instruments, automotive telematics, military equipment, utility meters, alarms, and security systems, and storage and tracking devices.

General specifications

Technology / Technologie	Lithium Thionyl Chloride [Bobbin Type]
Designation IEC / Désignation IEC	UER18505
Nominal Capacity / Capacité Nominale	4.1 Ah [2 mA~2 V]
Nominal voltage / Tension nominale	3.6 V
Maximum continuous current	80 mA
Maximum pulse current	150 mA
Average weight / Poids moyen	29 g
Operating temperature range	-55 °C – +85 °C
End of Discharge Voltage / Tension de la fin de décharge	2 V
Shelf Life / Durée de vie	10 Years / 10 Ans
Dimensions	Φ D: 18.5 x H: 50.5 mm



Electrical Specifications

At 23 ± 2 °C, the battery begins to discharge with a 10 μ A base current. The battery releases one pulse (150 mA/0.1 s) every 2 minutes during discharge. The battery voltage should not be less than 2.7 V. The voltage value depends on the pulse characteristics, temperature, and usage of the battery.

Available terminations

- S: Standard
- T: Solder tabs
- P: Axial pins

Customized terminations are also available.

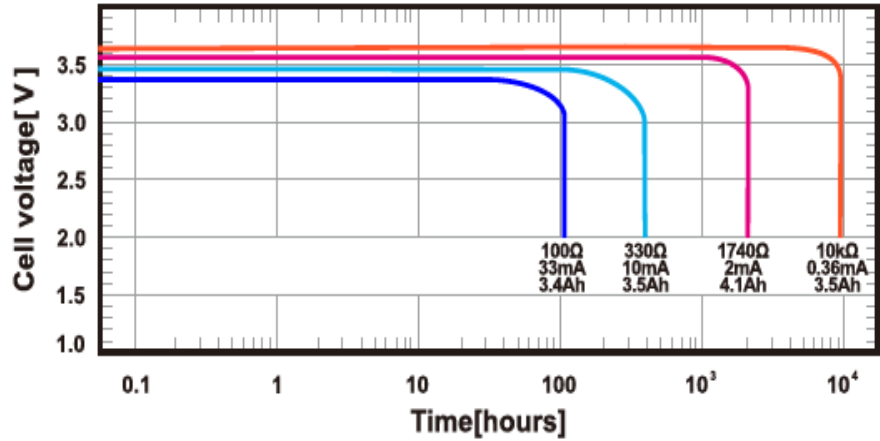
Safety considerations

Do not expose the battery to open flame or inflammable/ explosive materials.

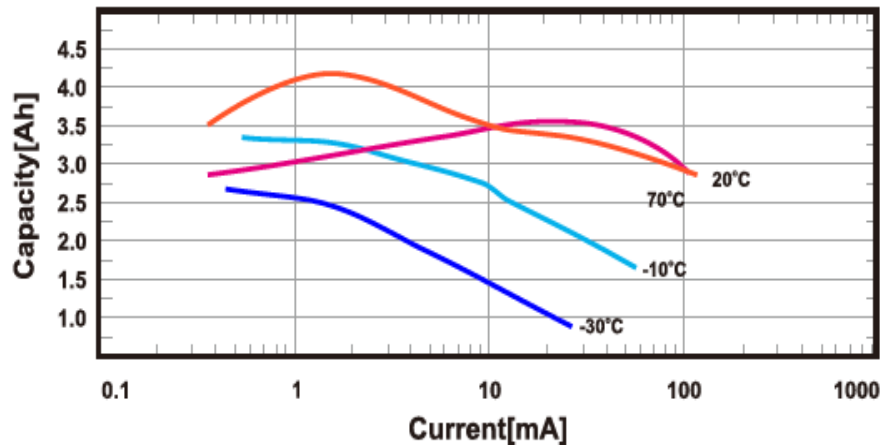
Do not recharge, short circuit, disassemble, incinerate, or heat the battery >100 °C.

Do not use the battery beyond its permitted temperature range.

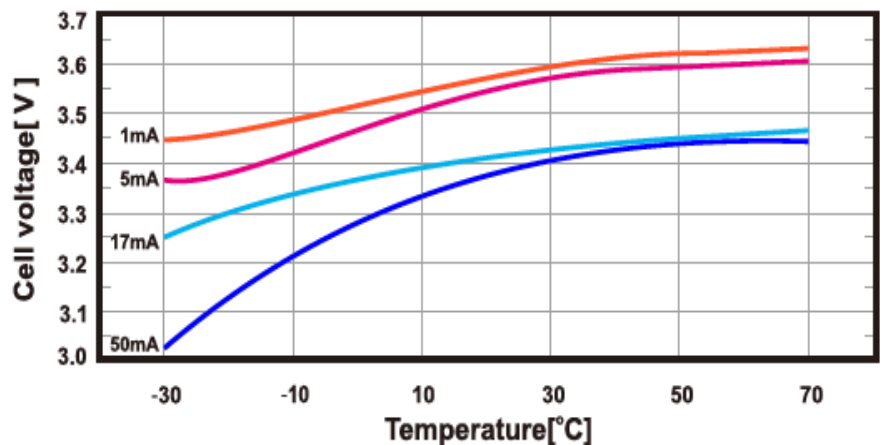
Typical Discharge Profiles at $+23 \pm 2$ °C



Restored Capacity vs. Current and Temperature [2.0 V cut-off]



Voltage Plateau Curves
Current and Temperature



Note: The above information is generally descriptive only and is not intended as a guarantee or warranty. Uniross reserves the right to alter or amend the design, model and specification without prior notice.