

LITHIUM BATTERY

Primary lithium batteries ER18505S

**3.6V Primary lithium-thionyl chloride
(Li-SOCl₂) High Temperature type
A bobbin cell**

For high drain/high pulses applications requesting superior voltage response in -40°C~+150°C environments.

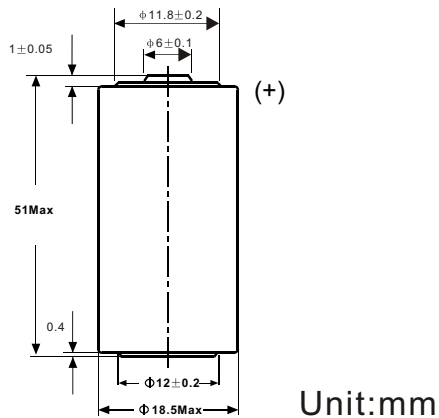
Cell size references

A

Electrical characteristics (typical values relative to cells stored for one year or less at +150°C max.)	
Nominal capacity (at 25mA +150°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).	2.4Ah
Open circuit voltage (at +150°C)	3.66V
Nominal voltage (at 25mA +150°C)	3.6V
Pulse capability: Typically up to 200 mA (200 mA/0.1 second pulses, drained every 2 mn at +20°C from undischarged cells with 10 μ A base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell' s previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult pbq)	
Max. Continuous current	100mA
Max. Pulse current	200mA
Storage (recommended) (for more severe conditions, consult pbq)	+150°C max
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult pbq)	-40°C / +150°C
Physical characteristics	
Diameter (max)	18.5mm(0.74 in)
Height (max)	50.5mm(2 in)
Typical weight	32g(1oz)
Available termination suffix	radial tabs, radial pins, axial leads flying leads

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**Key features**

- ▶ High and stable operating voltage
- ▶ Superior drain capability
- ▶ Low self-discharge rate (less than 3% after 1 year of storage at +20°C)
- ▶ Hermetic glass-to-metal sealing
- ▶ Notch technology for safety vent is recommended
- ▶ Non-flammable electrolyte

Main applications

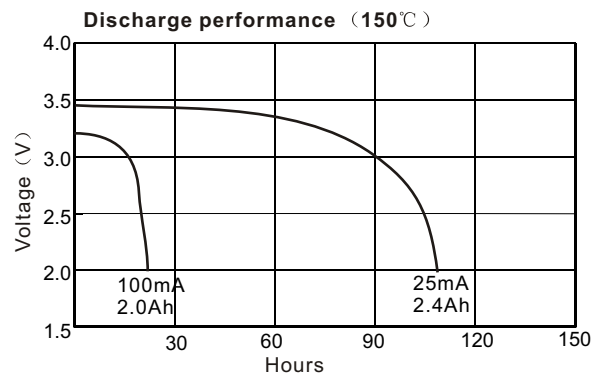
- ▶ Radiocommunication and other military applications
- ▶ Alarms and security systems
- ▶ Beacons and emergency location transmitters
- ▶ GPS
- ▶ Metering systems
- ▶ Sonobuoys
- ▶ LED lighting applications
- ▶ Others

Storage

- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

- ▶ Do not use if the battery casing was mangled.
- ▶ Don't use different models of battery in series.
- ▶ Do not try to recharge.

Characteristic curves

Nominal capacity 2.4Ah (25mA to 2.0V) .

