

## Primary lithium batteries ER18505M 3.6V 3.0Ah

**3.6V Primary lithium-thionyl chloride  
(Li-SOCl<sub>2</sub>) Power type  
A-size spiral cell**

For **high drain/high pulses** applications requesting superior voltage response in -55°C~+85°C environments.

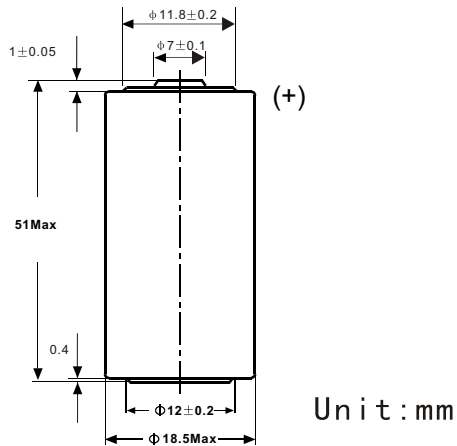
### Cell size references

( A )

### Alternative models

Electrical characteristics (typical values relative to cells stored for one year or less at +30°C max.)	
Nominal capacity (at 1 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).	3.0Ah
Open circuit voltage (at +20°C)	3.66V
Nominal voltage (at 1mA +20°C)	3.6V
Pulse capability: Typically up to 1000 mA (1000 mA/0.1 second pulses, drained every 2 mn at +20°C from undischarged cells with 10 μA 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 ABLE)	
Max. Continuous current	600mA
Max. Pulse current	1000mA
Storage (recommended) (for more severe conditions, consult ABLE)	+30°C (+86°F) max
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult ABLE)	-55°C / +85°C
Physical characteristics	
Diameter (max)	18.5mm(0.706 in)
Height (max)	50.5mm(2 in)
Typical weight	32g(1.047oz)
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 1% after 1 year of storage at +20°C)
- ▶ Optional stainless steel container for low magnetic and nickel plated steel container for more safe design
- ▶ Hermetic glass-to-metal sealing
- ▶ Notch technology for safety vent
- ▶ Non-flammable electrolyte
- ▶ Finished product with PTC to avoid short-circuit

### 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.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need or consult ABLE.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

### Characteristic curves

