



Ahead Cell Technology Co.,Ltd

High Energy Density Bobbin A Cell

Primary Lithium Battery

ER18505 3.6V

3.6V Primary lithium-thionyl chloride (Li-SOCl2) Energy Type



For low drain/long term operating applications requesting superior voltage response in -55°C ~+85°C environments

Cell size references

Alternative models

Electrical characteristics

(Typical values relative to cells stored for one year or less at +30°C max.)

Nominal capacity 4.0Ah (At 1mA +20°C, 2.0V cut off. The capacity restored varies according to current, temperature, cut off)

Open circuit voltage (At 20°C) 3.66V

Nominal voltage (At 1mA +20°C) 3.6 V

Max. continuous current (at +20°C) 100mA

Typical Max. continuous current (at +20°C) 200mA

Pulse capability: Typically up to 200mA (200mA/0.1second pulses drained every 2min at 20°C from cells with 20µA base current, yielding voltage readings above 3.0V. The readings may vary according to pulse characteristics, temperature and cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult ACT if necessary)

Storage (recommended) +30°C(+86°F)Max

Operating temperature range -55°C~+85°C (High and low temperatur will lower the capacity and load voltage.) -76°F~+185°F

Physical characteristics

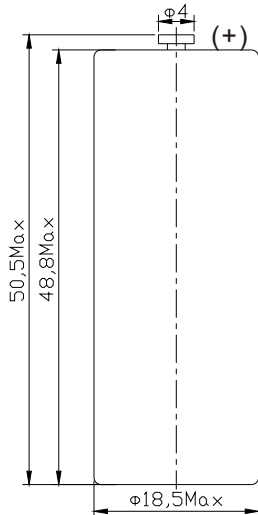
Diameter(Max) 18.5mm(0.73in)

Height(Max) 50.5mm(2in)

Typical weight 27g(0.9oz)

Available terminal suffix radial tabs, radial pins, axial leads, flying leads

**ER18505**



**Key features**

- >High and stable load voltage
- >Superior drain capacity
- >Low self-discharge rate  
(less than 1% after 1 year of storage at 20°C)
- >Stainless steel container
- >Hermetic glass-to-metal sealing
- >Laser welding
- >Non-flammable electrolyte

**Main applications**

- >Radiocommunication and other military applications
- >Alarms and security systems
- >Beacons and emergency location transmitters
- >GPS equipment
- >Metering systems
- >Led lighting applications
- >Others

**Storage**

- >Cells should be stored in a clean & dry (less than 30% RH) area
- >Temp. should not exceed +30°C

**Warning**

- >Do not use if cell casing is mangled
- >Do not use different model of cell in series
- >Soldering the tag should be finished in few seconds
- >Do not try to recharge

