



Ahead Cell Technology Co.,Ltd

**High Temperature
Bobbin Cell**

Primary Lithium Battery

ER18505S 3.6V

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

For low drain/long term operating applications requesting superior voltage response in -40°C ~+125°C environments

Cell size references

A

Electrical characteristics

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

Nominal capacity 2.8Ah
(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 Max

Operating temperature range -40C~+125°C
(High and low temperature will lower the capacity and load voltage.)

Physical characteristics

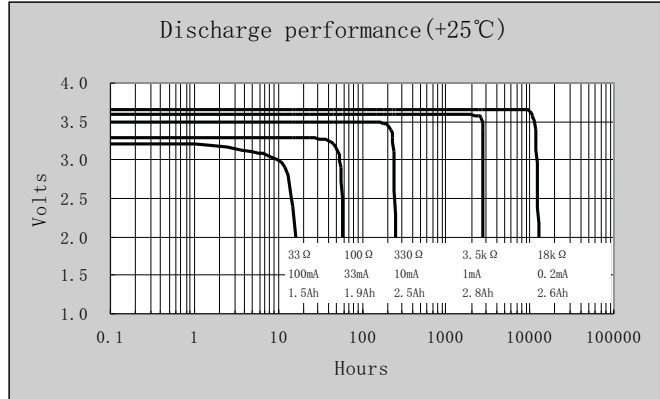
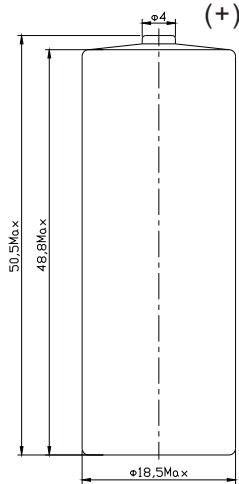
Diameter(Max) 18.5mm(0.73in)

Height(Max) 50.5mm(2in)

Typical weight 28g(1oz)

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

ER18505S



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

