ACT®

Ahead Cell Technology Co.,Ltd

High Power
Spiral ACell

Primary Lithium Battery

ER18505M 3.6V

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

For higher drain/pulse term operating applications requesting superior voltage response in -55˚C ～+85˚C environments

Cell size references A

Alternative models	LST17500

Electrical characteristics

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

Nominal capacity (At 3mA +20˚C,2.0V cut off.The capacity restored varies according to current,temperature,cut off)	3.5Ah
Open circuit voltage(At 20˚C)	3.66V
Nominal voltage (At 1mA +20˚C)	3.6 V
Max. continuous current (at +20˚C)	600mA
Typical Max. Pulse current (at +20˚C)	1000mA

Pulse capability:Typically up to 1000mA (1000mA/0.1second pulses draind every 2min at 20˚C from cells with 20μA base current,yielding voltage readings above 3.0V.The readings may vary according to pulse characterics,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˚CMax
Operating temperature range (High and low temperature will lower the capacity and load voltage.)	-55˚C~+85˚C

Physical characteristics

Diameter(Max)	18.5mm(0.55in)
Height(Max)	50.5mm(2in)
Typical weight	29g(1.02oz)
Available terminal suffix	radial tabs,radial pins,axial leads,flying leads

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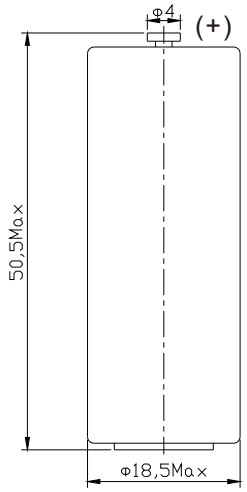
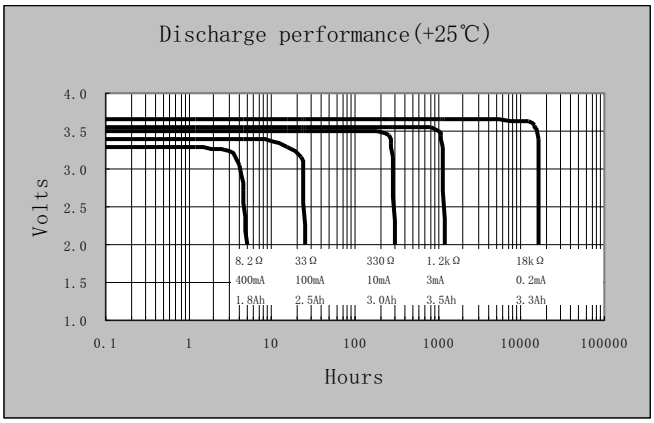
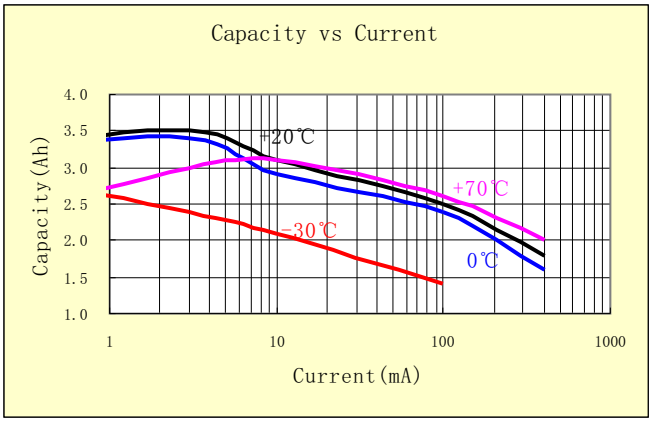
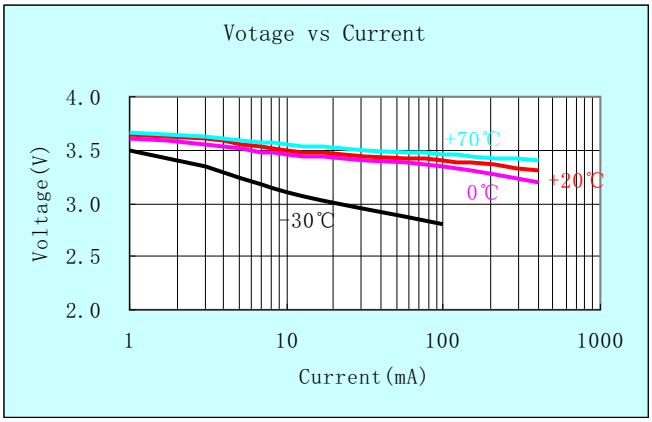




Key features
>High and stable load voltage
>Superior drain capacity
>Low self-discharge rate
(less than 1% after 1 year of storage at 20°C)
>Stainless steel container
>Hermetic glass-to-metal sealing
>Notch technology for safety vent is recommended
>Non-flammable electrolyte



Main applications
>Radiocommunication and other military applications
>Alarms and security systems
>Beacons and emergency location transmitters
>GPS equipment
>Metering systems
>Sonobouys
>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

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