

# ARICELL Primary Lithium Cell

3.6V lithium thionyl chloride / Li-SOCl<sub>2</sub>

## High rate series TCH-AA

Size AA, Spiral Wound structure



### Scope

3.6 V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) AA-sized Spiral type cell(with safety vent). These batteries are used in military batteries with high and stable operating voltages.

### Electrical Characteristics

\* Typical values at room temperature(+20°C ~ +30°C) for cell stored for one year or less.

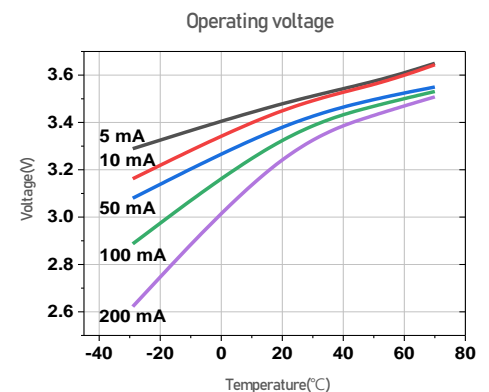
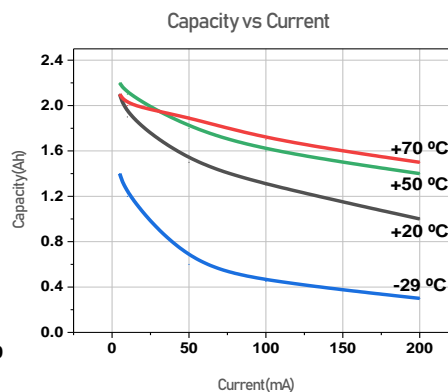
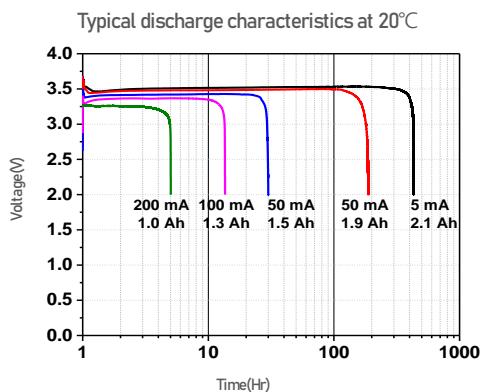
Nominal voltage(at +20°C)	3.67 V
Nominal capacity(at 1mA, +20°C, 2.0V cut off) <i>* The capacity restored by the cell varies according to current drain, temperature and cut-off.</i>	2.0 Ah
Maximum continuous discharge current <i>* The maximum continuous discharge current will provide more than 50% of its nominal capacity.</i>	250 mA
Pulse capability <i>* 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 or for high pulse currents. Consult ARICELL.</i>	800 mA
Storage(recommended)	+25°C ± 5°C in dry condition
Operational temperature range	-55°C ~ +85°C

### Physical Characteristics

Diameter(max)	14.5 mm
Height(max)	50.0 mm
Positive(+) pin diameter(max)	4.5 mm
Cell weight	18.0 g
Lithium metal content	Approx. 0.6 g
Available terminations	T1, T2, T3, T3R, AX, Wire, Connector

\* Customized battery pack: Since cell assembly requires a lot of experience and technical skills, we do not recommend end-user attempts to self-assembly without technical information. Please consult ARICELL.

### Performance



### Benefits

- High and stable operating voltage
- Superior shelf life
  - : Up to 10 years
- Wide operational temperature range
  - : -55°C ~ +85°C
- Low self-discharge rate
  - : Less than 2% per year at 20°C

### Key features

- 304L stainless steel container
- Hermetically glass to metal sealed
- Built-in safety vent
- Non-flammable electrolyte
- UL1642 certified: File no. MH 62104
- Compliant with IEC60086-4
- UN DOT 38.3
- Made in South Korea

### Typical applications

- AMR utility metering
- Medical equipment
- RFID device
- Military System
- Toll tag
- Asset tracking
- GPS Tracking

### Warning

- Fire, explosion and burn hazard. Do not recharge, short circuit, crush, disassemble, heat above 100°C(212°F), incinerate. Do not solder directly to the cell (use tabbed cell versions instead).

### Headquarter & Factory

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※ Any values given here are for reference only. They also depend on actual conditions of use and does not guarantee future performance. Subject to change.