

ARICELL Primary Lithium Cell

3.6V lithium thionyl chloride / Li-SOCl₂

High rate series TCH-D

Size D, Spiral Wound structure



Scope

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) D-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.

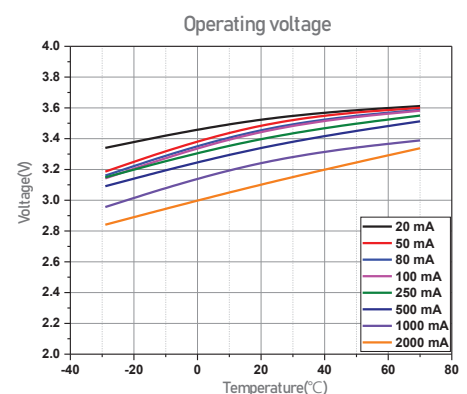
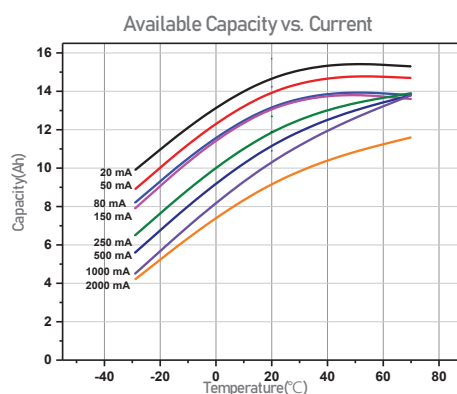
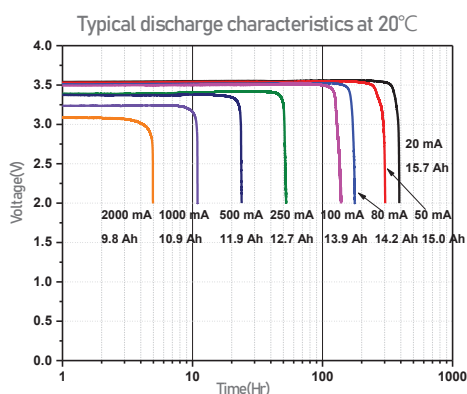
Nominal voltage (at +20°C)	3.67 V
Nominal capacity (at 20mA, +20°C, 2.0V cut off)	14.5 Ah
<i>* The capacity restored by the cell varies according to current drain, temperature and cut-off.</i>	
Maximum continuous discharge current	2,000 mA
<i>* The maximum continuous discharge current will provide more than 50% of its nominal capacity.</i>	
Pulse capability	3,000 mA
<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>	
Storage (recommended)	+25°C ± 5°C in dry condition
Operational temperature range	-55°C ~ +85°C

Physical Characteristics

Diameter (max)	34.0 mm
Height (max)	61.5 mm
Positive (+) Pin (terminal) diameter (max)	17.2 mm
Cell weight	105.0 g
Lithium metal content	Approx. 4.5 g
Available terminations	TI, 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
- 5A Fuse
- 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).

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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.

