

# ARICELL Primary Lithium Cell

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

## Moderate rate series TCM-CC21-HT165

Size CC21mm, Dual Anode structure

### Scope

3.6 V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) CC21mm-sized cell for operation up to 165 °C in demanding environments. The wide range of operating temperatures is used for drilling for oil.

### 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 60mA, +20°C, 2.0V cut off) <i>* The capacity restored by the cell varies according to current drain, temperature and cut-off.</i>	7~8 Ah
Maximum continuous discharge current <i>* The maximum continuous discharge current will provide more than 50% of its nominal capacity.</i>	120 mA 200 mA(reduced capacity)
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>	400 mA
Storage(recommended)	+25°C ± 5°C in dry condition
Operational temperature range	-40°C ~ +165°C

### Physical Characteristics

Diameter(max)	21.0 mm
Height(max)	104.0 mm
Positive(+) plate length(max)	50.0 mm
Cell weight	82.0 g
Lithium metal content	Approx. 2.9 g



### Benefits

- High and stable operating voltage
- Superior shelf life  
: Up to 10 years
- Wide operational temperature range  
: -40°C ~ +165°C
- Low self-discharge rate  
: Less than 2% per year at 20°C

### Key features

- Non-bulge Design
- Stainless Steel 304L container
- Glass to metal Sealing for Leak Free Operation
- 1A Parallel Diode
- Non-flammable electrolyte
- Compliant with IEC60086-4
- UN DOT 38.3
- Made in South Korea

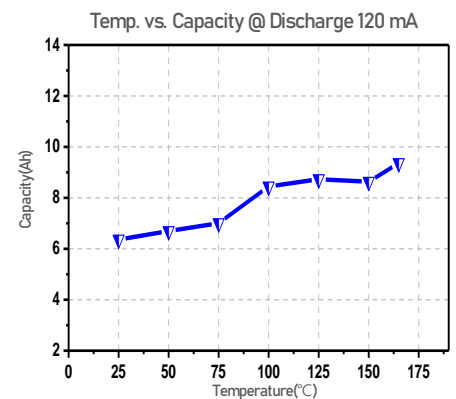
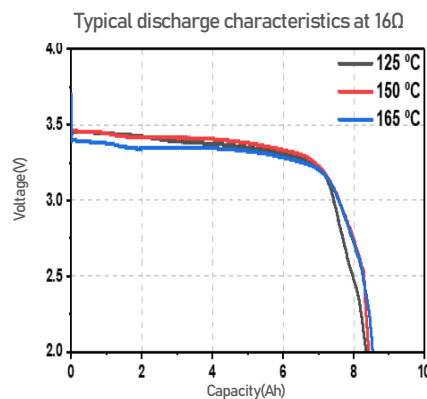
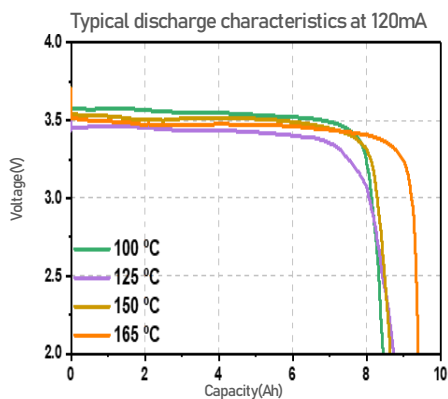
### Typical applications

- Oil & Gas Exploration
- MWD(Measurement While Drilling)
- LWD(Logging While Drilling)
- Cased-Hole Logging
- Geophysical Surveying

### 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).

### Performance



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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.