



ARICELL Primary Lithium Cell

3.6V lithium thionyl chloride / Li-SOCl₂

High rate series TCH-DD-HT150

Size DD, Spiral Wound structure

Scope

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) DD-sized cell for operation up to 150 °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 100mA, +20°C, 2.0V cut off) <i>* The capacity restored by the cell varies according to current drain, temperature and cut-off.</i>	26~28 Ah
Maximum continuous discharge current <i>* The maximum continuous discharge current will provide more than 50% of its nominal capacity.</i>	580 mA 1,300 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>	2,600 mA
Storage(recommended)	+25°C ± 5°C in dry condition
Operational temperature range	-40°C ~ +150°C

Physical Characteristics

Diameter(max)	31.9 mm
Height(max)	127.3 mm
Positive(+) plate length(max)	50.0 mm
Cell weight	230.0 g
Lithium metal content	Approx. 8.4 g

Abuse Specification

Vibration : 20 GRMS Random, 30 G Peak Sine Sweep, 30 GRMS Torsional on all axis
Shock : 1000 G Peak for 0.5 msec. 10 times on all axis

Benefits

- High and stable operating voltage
- Superior shelf life
 - : Up to 10 years
- Wide operational temperature range
 - : -40°C ~ +150°C
- Low self-discharge rate
 - : Less than 2% per year at 20°C
- High rate capability for high constant current & pulse discharge
- Using Gallium Chemical Based Electrolyte (for minimal passivation)
- High energy density

Key features

- Non-bulge Design
- Stainless Steel 304L container
- Glass to metal Sealing for Leak Free Operation
 - 5A Fuse & 3A Parallel Diode
 - Non-flammable electrolyte
 - Compliant with IEC60086-4
 - UN DOT 38.3
 - Made in South Korea

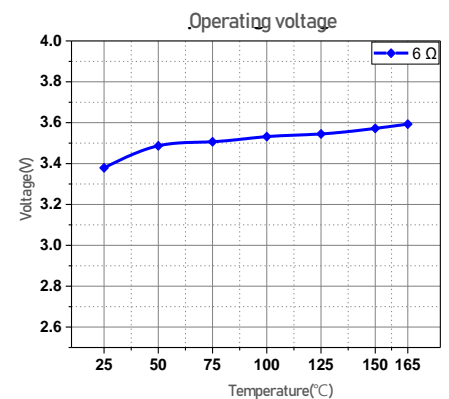
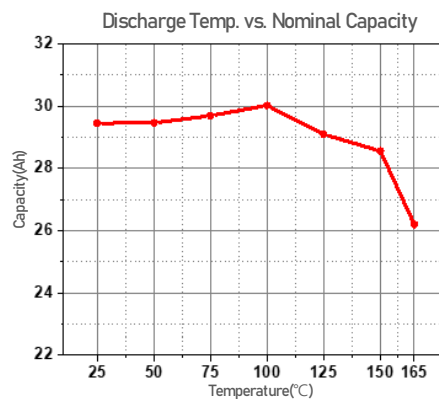
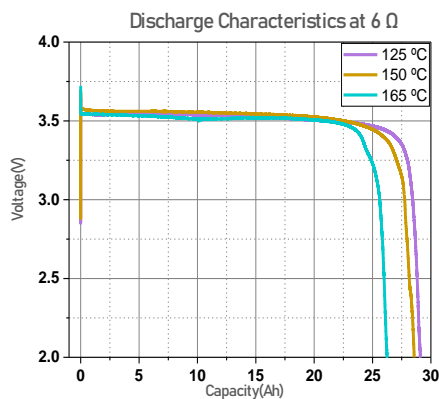
Typical applications

- 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.