

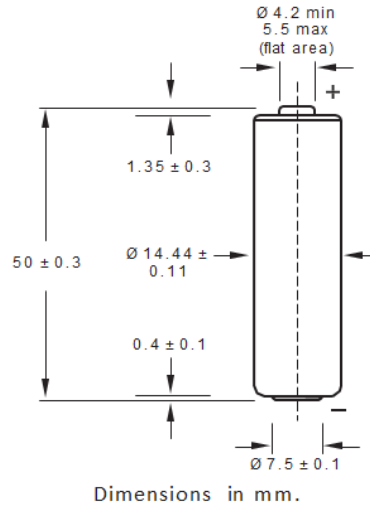


ENGLISH

Datasheet

Lithium Thionyl Chloride AA Battery

RS Stock number [596-602](#)



Description:

All cells are hermetically sealed in stainless steel cans (low magnetic signature and superior resistance to atmospheric corrosion).

For series or parallel connections of more than one cell refer to the data sheet - do not solder directly to the cell - used tabbed versions instead.

Benefits:

Enhanced Capacity.

High voltage response, stable during most of the lifetime of the application.

Wide operating temperature range: -60 to 85 °C.

Low self-discharge rate (less than 1% after 1 year of storage at 20 °C).

Easy integration into compact systems.

Superior resistance to atmospheric corrosion.

Key Features:

Stainless steel container and end caps with low magnetic signature.

Hermetic glass-to-metal sealing.

Non-flammable electrolyte.

Compliant with IEC 60086-4 safety standard and IEC 60079-11 intrinsic safety standard.

Non-restricted for transport / Non-assigned to Class 9 according to the UN Recommendations on the transport of dangerous goods.

Dimensional Drawing:



Main Applications:

Utility Metering; Automatic reader meeting; Alarms and security devices; Tollgate systems; Memory back-up; Tracking systems; Automotive electronics; Professional electronics.

Electrical Characteristics:

These values are typical relative to cells stored at 30 °C or less up to one year.

Nominal Capacity:	2.6 Ah
Open Circuit Voltage (at 20 °C):	3.67 V
Nominal Voltage (at 0.1 mA +20 °C):	3.6 V
Nominal Energy:	9.36 Wh
Pulse Capacity:	Typically up to 250 mA
Maximum Recommended Continuous Current:	50 mA
Storage:	30 °C (86 °F) max
Operating Temperature Range:	-60 °C to 85 °C

Note: For pulse capacity - 250 mA/0.1 second pulses, drained every 2 mn at + 20 °C from undischarged cells with 10 µA base current, yield voltage readings above 3.0 V. 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.

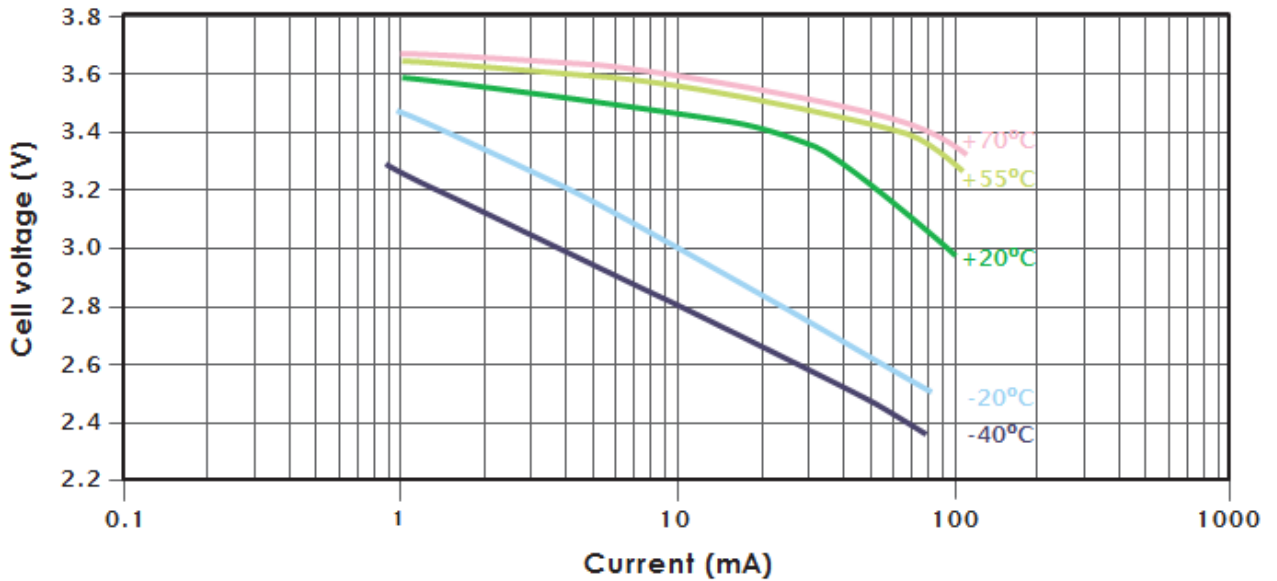
Physical Characteristics:

Diameter:	14.55 mm
Height:	50.3 mm
Typical Weight:	16.7 g
Li Metal content:	approx 0.7 g
Available termination suffix:	
CN, CNR	radial tabs
2 PF, 3 PF, 3 PF RP, 4 PF	radial pins
CNA (AX)	axial leads
FL	flying leads... etc.

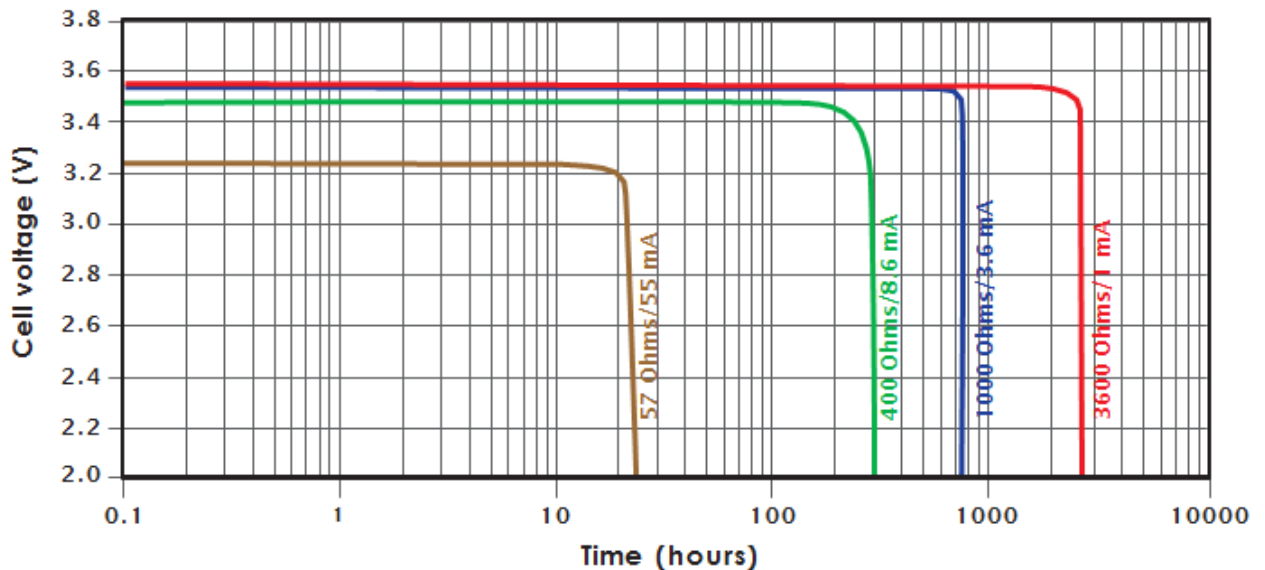
Storage:

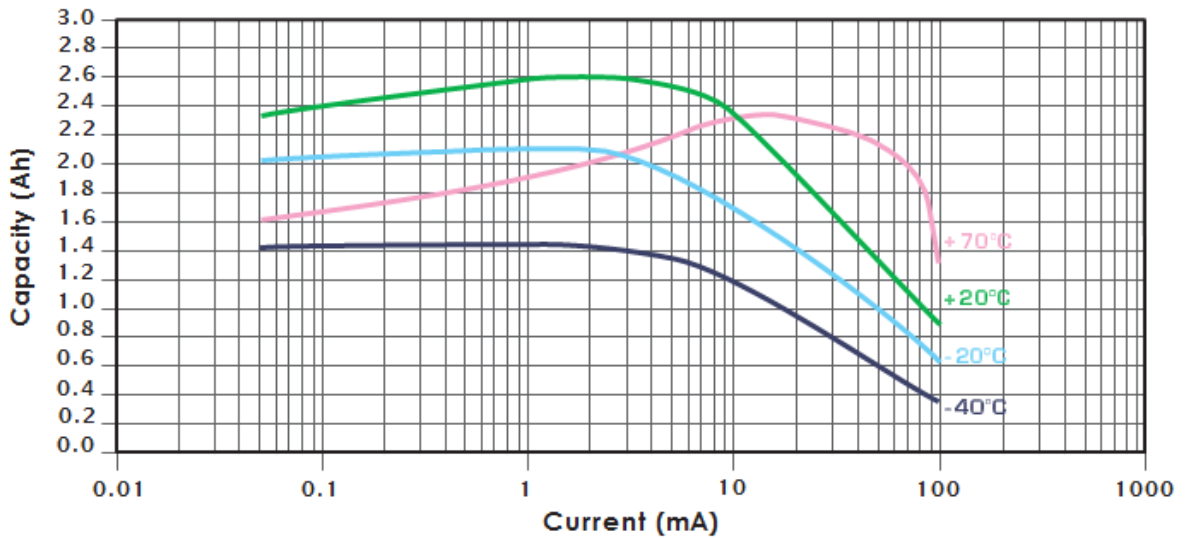
The storage area should be clean, cool (preferably not exceeding 30 °C), dry and ventilated.

Voltage plateau versus Current and Temperature (at mid-discharge)



Typical discharge profiles at +20°C



Restored Capacity versus Current and Temperature (2.0 V cut-off)**Warning:**

Fire, explosion and burn hazard.

Do not recharge, short circuit, crush, disassemble, heat above 100 °C, incinerate or expose contents to water.

Do not solder directly to the cell (use tabbed versions instead).