

Maintain the Battery

This chapter explains how to maintain your battery.

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CompactLogix controllers support the 1769-BA battery.



ATTENTION: The 1769-BA battery is the only battery you can use with the CompactLogix controllers. The 1747-BA battery is not compatible with the CompactLogix controllers and may cause problems.

Battery Handling

Lithium batteries are primary (not rechargeable) cells that give extended memory support for Rockwell Automation products.



ATTENTION: This product contains a sealed lithium battery that may need to be replaced during the life of the product.

At the end of its life, the battery contained in this product should be collected separately from any unsorted municipal waste.

The collection and recycling of batteries helps protect the environment and contributes to the conservation of natural resources as valuable materials are recovered.

Check If the Battery Is Low

The battery indicator (BAT) warns when the battery is low. Once the controller is powered down, the battery retains controller memory as long as the BAT indicator remains on. Temperature dictates how long the BAT indicator remains on.

Figure 24 - Battery Status Indicator

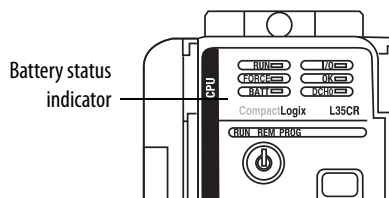


Table 31 - BAT Indicator Duration

Temperature	Duration
60 °C (140 °F)	8 days
25 °C (77 °F)	25 days

Estimate 1769-BA Battery Life

Certain conditions affect typical battery life.

Table 32 - Battery Life Estimations

Time On/Off	At 25 °C (77 °F)	At 40 °C (104 °F)	At 60 °C (140 °F)
Always off	14 months	12 months	9 months
On 8 hours per day 5 days per week	18 months	15 months	12 months
On 16 hours per day 5 days per week	26 months	22 months	16 months
Always On	There is almost no drain on the battery when the controller is always on.		

Store Lithium Batteries



ATTENTION: Follow these general rules to store your batteries.

- Store batteries in a cool, dry environment. We recommend 25 °C (77 °F) with 40 . . 60% relative humidity.
- Regularly monitor the temperature and humidity of the storage area.
- Use a first-in/first-out system for handling stored batteries.
- Store in the original containers away from flammable materials.
- Keep track of storage time. Reference storage time to the date of manufacture.
- Do not store batteries longer than 10 years.
- Do not store used batteries longer than 3 months before disposal.
- Clearly mark the contents of the storage area.
- Place a Lith-X or Class D Powder fire extinguisher in a readily accessible area in or around the storage area.
- Ventilate and protect the storage area against fire. You must have a system that automatically detects and extinguishes fires and automatically activates an alarm signal.
- Do not smoke in the storage area.

Table 33 - Storage Temperatures for 1769-BA Lithium Batteries

Storage Temperature	Capacity Loss
40 °C (104 °F) for 5 years	Loses up to 4% of original capacity
60 °C (140 °F)	Loses 2.5 % of capacity each year

- You may store batteries for up to 30 days between -45...85 °C (-49...185 °F) such as during transportation. Do not store in temperatures above 85° C (185 °F).
- To avoid leakage or other hazards, do not store batteries above 60° C for more than 30 days.
- The rate of capacity loss increases as storage temperature increases.

Battery Removal



WARNING: When you connect or disconnect the battery, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.