STANDARDS UPDATE NOTICE (SUN)
ISSUED: March 19, 2026

STANDARD INFORMATION

Standard: UL 810A
Standard ID: Electrochemical Capacitors [ANSI/CAN/UL 810A:2026 Ed.2]
Previous Standard ID: Electrochemical Capacitors [UL 810A:2008 Ed.1+R:03May2022]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **February 3, 2028**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Addition of Charge/Discharge Cycling Conditioning
- Revisions to the Abnormal Charge Test
- Revisions to the Dielectric Voltage-Withstand Test

Specific details of new/revised requirements are found in table below

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.

STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are underlined and deletions are shown ~~lined out~~ below.
12	Info	**Conditioning**
12.2	Info	**Charge/Discharge cycling conditioning**
12.2.3		***New clause added;*** The wire used for connecting the cells to the cycle tester shall be sized according to the National Electrical Code (NEC), NFPA 70 table for ampacity of single insulated conductors in free air at 60 °C (140 °F). In Canada, the equivalent table shall be used from CSA C22.1, Canadian Electrical Code (CEC), Part 1. The ampacity used for determining the wire size shall be the specified maximum charge or discharge current, whichever is larger.
14	Info	**Abnormal Charge Test**
14.4		Each sample is to be subjected to a constant charging potential of 110 % of the rated voltage with a charge current limit equal to the specified maximum charging current for a period of seven hours or until ultimate results. Ultimate results are considered to be fire, explosion, or stabilization of temperatures after 7 hours with no occurrence of fire or explosion.
17	Info	**Dielectric Voltage-Withstand Test**
17.2		The capacitor shall withstand an applied dc test potential of ~~1000~~ 1400 volts dc plus twice the rated dc voltage between all live parts and all dead metal parts.