



UL 810A

STANDARD FOR SAFETY

Electrochemical Capacitors

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UL Standard for Safety for Electrochemical Capacitors, UL 810A

First Edition, Dated October 7, 2008

Summary of Topics

The revision dated November 1, 2012 was issued to incorporate the addition of a definition for Electrochemical Capacitors, 5.7A.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin. Changes in requirements are marked with a vertical line in the margin and are followed by an effective date note indicating the date of publication or the date on which the changed requirement becomes effective.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated September 21, 2012.

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UL 810A

Standard for Electrochemical Capacitors

First Edition

October 7, 2008

This ANSI/UL Standard for Safety consists of the First Edition including revisions through November 1, 2012.

The most recent designation of ANSI/UL 810A as an American National Standard (ANSI) occurred on November 1, 2012. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

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INTRODUCTION

1 Scope

1.1 These requirements cover electrochemical capacitors for use in equipment such as electronic products, uninterruptible power supplies, emergency lighting, engine starting, and power equipment. These energy storage capacitors, also known as "electric double layer capacitors", "ultracapacitors", "double layer capacitors" or "supercapacitors" consist of either individual capacitors or multiple series and/or parallel connected capacitors with or without associated circuitry.

1.2 These requirements do not cover electrochemical capacitors for use in hazardous (Classified) locations.

2 Units of Measurement

2.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

3 Undated References

3.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

4 Components

4.1 Except as indicated in 4.2, a component of a product covered by this standard shall comply with the requirements for that component.

4.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or
- b) Is superseded by a requirement in this standard.

4.3 A component shall be used in accordance with its rating established for the intended conditions of use.

4.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.