JOINT CANADA-UNITED STATES
NATIONAL STANDARD

# ANSI/CAN/UL 9540A:2019

## STANDARD FOR SAFETY

# Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems

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Approved American National Standard
ANSI

ANSI/UL 9540A-2019

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UL Standard for Safety for Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems, ANSI/CAN/UL 9540A:2019

Fourth Edition, Dated November 12, 2019

***Summary of Topics***

***This Fourth Edition of ANSI/CAN/UL 9450A, Standard for Safety for Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems, has been issued to reflect the latest ANSI and SCC approval dates, and to incorporate the proposals dated March 29, 2019 and August 16, 2019.***

The requirements are substantially in accordance with Proposal(s) on this subject dated March 29, 2019 and August 16, 2019.

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NOVEMBER 12, 2019



# ANSI/CAN/UL 9540A:2019

## Standard for Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems

First Edition – November, 2017
Second Edition – January, 2018
Third Edition – June, 2018

**Fourth Edition**

**November 12, 2019**

This ANSI/CAN/UL Safety Standard consists of the Fourth Edition.

The most recent designation of ANSI/UL 9540A as an American National Standard (ANSI) occurred on November 12, 2019. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, Preface or SCC Foreword.

This standard has been designated as a National Standard of Canada (NSC) on November 12, 2019.

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**ANNEX B (INFORMATIVE) Safety Recommendations for Testing**



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# Preface

This is the Fourth Edition of the ANSI/CAN/UL 9540A, Standard for Safety for Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems.

UL is accredited by the American National Standards Institute (ANSI) and the Standards Council of Canada (SCC) as a Standards Development Organization (SDO).

This Standard has been developed in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization.

This ANSI/CAN/UL 9540A Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

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This Edition of the Standard has been formally approved by the UL Standards Technical Panel (STP) on Energy Storage Systems and Equipment, STP 9540.

This list represents the STP 9540 membership when the final text in this standard was balloted. Since that time, changes in the membership may have occurred.

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This Standard is intended to be used for conformity assessment.

The intended primary application of this standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for this particular application.

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