JOINT CANADA-UNITED STATES
NATIONAL STANDARD

ANSI/CAN/UL 2056:2026

STANDARD FOR SAFETY

Power Banks

ANSI/UL 2056-2026

SCC FOREWORD

National Standard of Canada

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UL Standard for Safety for Power Banks, ANSI/CAN/UL 2056

First Edition, Dated October 22, 2024

Summary of Topics

This revision of ANSI/CAN/UL 2056 dated June 30, 2026 includes the following changes:

– Updates to the flammability requirement of internal parts: 6.1.5

– Clarification of the test method in the Short-Circuit of Output Port Test: 12.3

– Correction of the limits of cell temperatures in the Electrical Tests: 12.3A, 12.7, 12.8, 12.9, 12.10, 13.2A, 13.3A, 13.5, 14.5A, 14.7, and 18.5

– Clarification of the test condition and the tolerance of metal rods in the Flexing Force Test: Figure 23.1

– Alignment of the oven temperature tolerance in the Mold Stress Relief Test: 24.1

– Update the structural requirement for Direct plug-in construction: 6.7.1(c)

– Clarification of the test methods in the Abnormal Charging of the Battery Test: 13.2 and 13.4

– Clarification of the test method in the Temperature Test and BMS Verification: Exception to 16.5

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated October 10, 2025 and March 13, 2026.

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ANSI/UL 2056-2026

OCTOBER 22, 2024
(Title Page Reprinted: June 30, 2026)

ANSI/CAN/UL 2056:2026

Standard for Power Banks

First Edition

October 22, 2024

This ANSI/CAN/UL Safety Standard consists of the First Edition including revisions through June 30, 2026.

The most recent designation of ANSI/UL 2056 as an American National Standard (ANSI) occurred on June 30, 2026. 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 June 30, 2026.

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Preface

This is the First Edition of ANSI/CAN/UL 2056, Standard for Power Banks.

ULSE 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 2056 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.

Annex A is identified as Normative for Canada and Informative for the US. Informative text is for informational purposes only, and Normative text is considered to be mandatory.

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.

Comments or proposals for revisions on any part of the Standard may be submitted at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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This Edition of the Standard has been formally approved by the Technical Committee (TC) on Power Banks, TC 2056.

This list represents the TC 2056 membership when the final text in this Standard was balloted. Since that time, changes in the membership may have occurred.

TC 2056 Membership

Name	Representing	Interest Category	Region
Akhlasi, Kamran	Health Canada	Government	Ontario, Canada
Aman, Simon	Stanley Black & Decker	Producer	USA
Brenner, Rick	Products Safety Advisors	Supply Chain	USA
Bullock, Nathaniel	Geiger	Supply Chain	USA
Byczek, Rich	Intertek	Testing and Standards Org.	USA
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Holmdahl, Bryan	Amazon	Producer	USA
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Kadiwala, Jay	US Consumer Product Safety Commission	Non-Voting	USA
Kendrick, Michael	Airline Pilots Association	Commercial / Industrial Users	USA
Liang, Alex	UL Solutions	Testing and Standards Org.	Taiwan
Marshall, Michael	BioLite Energy	Producer	USA
Rahardi, Susanto	Balai Besar Bahan dan Barang Teknik (B4T) (Representing BSN)	International Delegate	Indonesia
Raines, Heather	Staples Promotional Products	Supply Chain	USA
Savage, Michael	Willdan Engineering	Authorities Having Jurisdiction	USA
Songlin, Yang	Shenzhen PowerOak Newener Co.,ltd	Producer	China
Sudler, Samuel	SEA Ltd	General Interest	USA
Tang, Jason	TÜV Rheinland (Shenzhen) Co., Ltd.	Testing and Standards Org.	China
Van Langenhove, Kevin	WestJet Airlines	Commercial / Industrial User	Canada
Zheng, Aaron	UL Standards & Engagement	Project Manager	USA
Zhang, Guanghui	Vertiv	Commercial / Industrial User	China
Zhang, Zhiyang	Guangzhou MCM Certifications & Testing Co.,LTD	Testing and Standards Org.	China

International Classification for Standards (ICS): 29.220.10; 29.220.20; 29.220.30

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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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INTRODUCTION

1 Scope

1.1 These requirements cover power banks, sometimes also known as portable USB chargers or portable back-up battery power, which are standalone devices that incorporate primary or secondary batteries for mobile powering of low voltage electronic devices.

1.2 These requirements cover products with the following power characteristics:

a) Input:

1) Supplied by isolated dc power source rated maximum 60 Vdc; or

2) Supplied by ac mains power source, through direct plug-in construction.

b) Output: Provides dc output(s) rated maximum 60 Vdc; and

c) The watt-hour rating of the power bank does not exceed 100 Wh.

1.3 These requirements are intended to reduce the risk of fire or explosion of power banks.

1.4 These requirements also cover products with integral photovoltaic cells as a power source.

1.5 These requirements do not cover products under the scope of the Standard for Portable Power Packs, UL 2743.

2 Units of Measurement

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

3 Components

3.1 A component of a product covered by this Standard shall:

a) Comply with the requirements for that component as specified in this Standard;

b) Be used in accordance with its rating(s) established for the intended conditions of use; and

c) Be used within its established use limitations or conditions of acceptability.

3.2 A component of a product covered by this Standard is not required to comply with a specific component requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product;

b) Is superseded by a requirement in this Standard; or

c) Is separately evaluated when forming part of another component, provided the component is used within its established ratings and limitations.

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

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3.4 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.

3.5 A component that is also intended to perform other functions such as overcurrent protection, ground-fault circuit-interruption, surge suppression, any other similar functions, or any combination thereof, shall comply additionally with the requirements of the applicable standard(s) that cover devices that provide those functions.

3.6 This Standard deals with the covered components used in accordance with CSA C22.2 No. 0.

4 Referenced Publications

4.1 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.

4.2 Power banks covered by this Standard shall comply with the referenced codes and standards noted in this Section as appropriate for the country where the power bank is to be used. When the power bank is intended for use in more than one country, the product shall comply with the codes and standards for all countries where it is intended to be used. Standards that are harmonized with each other are separated by a slash (/).

4.3 The following publications are referenced in this Standard.

CSA C22.2 No. 0, *General Requirements – Canadian Electrical Code, Part II*

CSA C22.2 No. 0.15, *Adhesive Labels*

CSA C22.2 No. 0.17, *Evaluation of Properties of Polymeric Materials*

CSA C22.2 No. 65, *Wire Connectors*

CSA C22.2 No. 153, *Electrical Quick-Connect Terminals*

CSA C22.2 No. 158, *Terminal Blocks*

CSA C22.2 No. 182.3, *Special Use Attachment Plugs, Receptacles and Connectors*

CSA C22.2 No. 188, *Splicing Wire Connectors*

CSA C22.2 E60730-1, *Automatic Electric Controls – Part 1: General Requirements*

CSA C22.2 No. 60691, *Thermal-Links – Requirements and Application Guide*

CSA C22.2 No. 62133-1, *Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications – Part 1: Nickel Systems*

CSA C22.2 No. 62133-2, *Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications – Part 2: Lithium Systems*

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