JOINT CANADA-UNITED STATES
NATIONAL STANDARD

STANDARD FOR SAFETY

ANSI/CAN/UL-2272:2016, Electrical Systems for Personal E-Mobility Devices

Approved American National Standard

ANSI

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UL Standard for Safety for Electrical Systems for Personal E-Mobility Devices, UL 2272

First Edition, Dated November 21, 2016

Summary of Topics

The First Edition of the Standard for Electrical Systems for Personal E-Mobility Devices, UL 2272, has been issued.

The new requirements are substantially in accordance with Proposal(s) on this subject dated April 15, 2016 and July 15, 2016.

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NOVEMBER 21, 2016

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UL 2272

Standard for Electrical Systems for Personal E-Mobility Devices

First Edition

November 21, 2016

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

The most recent designation of ANSI/UL 2272 as an American National Standard (ANSI) occurred on November 21, 2016. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, Preface or SCC Foreword.

This standard has been approved as a National Standard of Canada (NSC) by the Standards Council of Canada (SCC).

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Preface (UL)

This is the First Edition of the ANSI/CAN/UL 2272 Standard for Safety for Electrical Systems for Personal E-Mobility Devices.

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

This ANSI/CAN/UL 2272 Standard for Safety is under continuous maintenance, whereby each revision is ANSI/CAN approved upon publication. If no revisions occur, the initiation of the review of this Standard will commence within 5 years of the date of publication.

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 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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This Edition of the Standard has been formally approved by the UL Standards Technical Panel (STP) on Electrical Systems for Self-Balancing Scooters, STP 2272.

This list represents the STP 2272 membership when the final text in this standard was balloted. Since that time, changes in the membership may have occurred.

STP 2272 Membership

Name	Representing	Interest Category*	Region
Bigler, Robert	Hoverboard Technologies	Producer	USA
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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 the electrical drive train system including the battery system, other circuitry and electrical components for electric powered scooters and other devices to be referred to as personal e-mobility devices as defined in this standard.

1.2 This standard is intended for evaluation of the safety of the electrical drive train system and battery and charger combination for energy and electrical shock hazards and does not evaluate the performance or reliability of these devices. In addition, it does not evaluate the physical hazards that may be associated with the use of personal e-mobility devices.

2 Components

2.1 A component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components generally used in the products covered by this standard.

3 Units of Measurement

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

4 Undated References

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.

5 Normative References

5.1 Products covered by this standard shall comply with the reference standards noted in this section as appropriate for the country where the product is to be used. When the product is intended for use in more than one country, the product shall comply with the standards for all countries where it is intended to be used.

5.2 The following standards are referenced in this standard, and portions of these referenced standards as identified in this standard may be essential for compliance.

CSA Standards

CSA-C22.2 No. 0.15
Adhesive Labels

CAN/CSA-C22.2 No. 0.17
Evaluation of Properties of Polymeric Materials

CSA-C22.2 No. 0.2
Insulation Coordination

CSA-C22.2 No. 0.8
Safety Functions Incorporating Electronic Technology

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