

**Consumer Goods (Self-balancing Scooters) Safety Standard 2016**

**Consumer Protection Notice No.7 of 2016**

*Competition and Consumer Act 2010*

|  |
| --- |
| I, KELLY O’DWYER, Minister for Small Business and Assistant Treasurer, make the following safety standard.  DATED this 5 day of July 2016  KELLY O’DWYER  Minister for Small Business and Assistant Treasurer |

**Part 1 - Preliminary**

1. **Name of Safety Standard**

This safety standard is the Consumer Goods (Self-balancing Scooters) Safety Standard 2016.

1. **Commencement**

This safety standard commences on 17 July 2016.

1. **Authority**

This safety standard is made under section 104(1) of the Australian Consumer Law.

1. **End date**

This safety standard will end on 16 July 2018.

1. **Purpose**

This safety standard sets out specified safety requirements for self-balancing scooters.

Note: For the requirement to comply with a safety standard, see section 106 of the Australian Consumer Law.

1. **Definitions**

In this safety standard:

***Australian Consumer Law*** means Schedule 2 to the *Competition and Consumer Act 2010.*

***AS/NZS 60335.1:2011***means *AS/NZS 60335.1:2011 (incorporating amendment Nos 1, 2 and 3) (IEC TEXT) Household and similar electrical appliances—Safety Part 1: General requirements (IEC 60335-1 Ed 5.1, MOD)*.

***IEC 62133***means *IEC 62133 Edition 2.0 2012-12 - 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*.

***IEC 60335-1***means *IEC 60335-1 Edition 5.1 2013-12 Household and similar electrical appliances - Safety - Part 1: General requirements.*

***Self-balancing scooter*** means a two-wheeled ride on device with no steering grips, seats or handlebars which is powered by a lithium-ion battery that is rechargeable via connection to a mains power supply.

Note: Self-balancing scooters are also known as hoverboards, gliders, smart boards, sky walkers or mod boards.

***UL 2272*** means *UL 2272 – Outline of Investigation for Electrical Systems for Self-Balancing Scooters, Issue Number: 1.*

**Part 2 – Safety Requirements**

1. **Specific safety requirements**

The requirements in (1) and (2) below are the specific safety requirements with which self-balancing scooters must comply:

1. The following International Electrotechnical Commission (IEC) standards :
   1. for batteries, as specified in *IEC 62133*; and
   2. for battery control systems preventing electrical appliances from attaining excessive temperatures in normal use, as specified in section 11 as amended by Annex B, of *IEC 60335-1* or as specified in section 11 as amended by Annex B, of *AS/NZS 60335.1:2011;* and
   3. for battery control systems preventing abnormal operation of electrical appliances, as specified in section 19, as amended by Annex B, of *IEC 60335-1* or as specified in section 19, as amended by Annex B, of *AS/NZS 60335.1:2011*;

or

1. the requirements specified in the following sections of the Underwriters Laboratories Inc. (UL) document *UL 2272* for:
   1. Fuses as specified in section 11 of *UL 2272;*
   2. Protective circuits and safety analysis as specified in sub-sections 15.1, 15.2, 15.3, 15.4 and 15.5 of *UL 2272;*
   3. Cells as specified in section 16 of *UL 2272;*
   4. Overcharging as specified in section 23 of *UL 2272;*
   5. Short circuit protection as specified in section 24 of *UL 2272;*
   6. Temperature control as specified in section 26 of *UL 2272; and*
   7. Cell imbalanced charging as specified in section 27 of *UL 2272.*
2. **Incorporation of extrinsic material**

The extrinsic material incorporated in this instrument is in force at the date of the commencement of this instrument, as follows:

1. *IEC 62133,* published in December 2012.
2. *IEC 60335-1* published in December 2013.
3. *AS/NZS 60335.1:2011,* published on 29 April 2011 and reissued incorporating Amendment No. 1 (June 2012), Amendment No. 2 (November 2014) and Amendment No. 3 (November 2015).
4. *UL 2272,* published on 29 January 2016.
5. **Access to the incorporated extrinsic material**
6. The *IEC 62133* and *IEC 60335-1* standards can be purchased from a variety of online sources including the IEC ([webstore.iec.ch/](file:///C:\Users\wpete\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Content.Outlook\AZ6S16V7\webstore.iec.ch\)), SAI Global ([infostore.saiglobal.com/store/](file:///C:\Users\wpete\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Content.Outlook\AZ6S16V7\infostore.saiglobal.com\store\)) and the International Organization for Standardization ([www.iso.org/iso/store.htm](http://www.iso.org/iso/store.htm)).
7. The *AS/NZS 60335.1* standard can be purchased from SAI Global ([infostore.saiglobal.com/store/default.aspx](file:///C:\Users\wpete\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Content.Outlook\AZ6S16V7\infostore.saiglobal.com\store\default.aspx)).
8. The first edition of *UL 2272* can be purchased from Underwriters Laboratories Inc. ([www.comm-2000.com/](http://www.comm-2000.com/)).
9. The cost of these standards varies between AUD$120 and AUD$900. The Australian Competition and Consumer Commission (ACCC) can make a copy of these standards available for public viewing by arrangement at an ACCC office, subject to licensing conditions.