



UL 2594

STANDARD FOR SAFETY

Electric Vehicle Supply Equipment

UL Standard for Safety for Electric Vehicle Supply Equipment, UL 2594

Second Edition, Dated December 21, 2016

Summary of Topics

This Second Edition of the Standard for Electric Vehicle Supply Equipment, UL 2594, is being issued to incorporate the following:

- 1. Addition of Definition for Output Cable to the Electric Vehicle***
- 2. Revision to the Definition for EVSE***
- 3. Revision to the Mold Stress-Relief Distortion Test***
- 4. EVSE with Smart Grid Capability***
- 5. Addition of 50 Hz Ratings in the Scope***
- 6. Revision of Scope to Exclude Wireless Charging***
- 7. Revisions to Clarify that the Definitions Apply to All Vehicle Technologies***
- 8. Editorial Changes to the Definitions***
- 9. Editorial Clarifications to the Description of Products***
- 10. Reversal of Cord Length Requirements***
- 11. Addition of Reference Pointers to Section 28, Overcurrent Protective Devices***
- 12. Changes to Product Designations***
- 13. Clarification of Requirements for Products Intended for Use in Commercial Garages***
- 14. Editorial Corrections***
- 15. Deletion of Section 70***
- 16. Revision to the Definition of Electric Vehicle to Include Motorcycles***
- 17. Revision of Requirements for Overcurrent Protective Devices***
- 18. Additional Reference to CSA C22.2 No. 0***
- 19. Revision to Requirements for the Fastening in Place of Cord-Connected Products Rated Higher than 125 V ac***
- 20. Deletion of Required Extra Hard Usage Flexible Cord for EV Cord Sets Designated for Use in Classified Areas***
- 21. Revision to Require Nonlocking Plug Types to be Used for Cord- and Plug-Connected Products***

The new requirements are substantially in accordance with Proposal(s) on this subject dated August 28, 2015 and July 15, 2016.

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Association of Standardization and Certification
NMX-J-677-ANCE-2016
Second Edition



CSA Group
CSA C22.2 No. 280-16
Second Edition



Underwriters Laboratories Inc.
UL 2594
Second Edition

Standard for Electric Vehicle Supply Equipment

December 21, 2016



ANSI/UL 2594-2016

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Preface

This is the harmonized ANCE, CSA Group, and UL Standard for Electric Vehicle Supply Equipment. It is the Second edition of NMX-J-677-ANCE, the Second edition of CSA C22.2 No. 280, and the Second edition of UL 2594. This edition of NMX-J-677-ANCE supersedes the previous edition published on February 22, 2013. This edition of CSA-C22.2 No. 280 supersedes the previous edition published on February 22, 2013. This edition of UL 2594 supersedes the previous edition published on February 22, 2013.

This harmonized standard was prepared by the Association of Standardization and Certification (ANCE), CSA Group, and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Working Group for Electric Vehicle Supply Equipment are gratefully acknowledged.

This standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

The present Mexican Standard was reviewed and approved by the Comité de Normalización de la Asociación de Normalización y Certificación, A.C., CONANCE.

This standard was reviewed by the CSA Subcommittee on Electric Vehicle – Supply Equipment, under the jurisdiction of the CSA Technical Committee on Industrial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee.

This standard has been approved by the American National Standards Institute (ANSI) as an American National Standard.

Application of Standard

Where reference is made to a specific number of specimens to be tested, the specified number is to be considered a minimum quantity.

Note: Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Level of harmonization

This standard uses the IEC format but is not based on, nor is considered equivalent to, an IEC standard.

This standard is published as an equivalent standard for ANCE, CSA Group, and UL.

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