

AS/NZS 62196.1:2023



Australian/New Zealand Standard™

Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles

Part 1: General requirements (IEC 62196-1:2022, MOD)



AS/NZS 62196.1:2023

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-004, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 02 May 2023 and by the New Zealand Standards Approval Board on 05 April 2023.

This Standard was published on 19 May 2023.

The following are represented on Committee EL-004:

- Association of Accredited Certification Bodies
- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Better Regulation Division (Fair Trading, SafeWork NSW, TestSafe)
- Consumer Electronics Suppliers Association
- Consumers Federation of Australia
- Electrical Regulatory Authorities Council, Australia
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- International Accreditation New Zealand
- Joint Accreditation System of Australia & New Zealand
- Manufacturers' Network
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This Standard was issued in draft form for comment as DR AS/NZS 62196.1:2023.

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ISBN 978 1 76139 171 2

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First published as AS/NZS 62196.1:2023.



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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical Accessories.

The objective of this document is to specify requirements for EV plugs, EV socket-outlets, vehicle connectors, vehicle inlets, herein referred to as “accessories”, and to cable assemblies for electric vehicles (EV) intended for use in conductive charging systems which incorporate control means, with a rated operating voltage not exceeding 690 V AC 50 Hz to 60 Hz at a rated current not exceeding 250 A and 1 500 V DC at a rated current not exceeding 800 A.

These accessories and cable assemblies are intended to be installed by instructed persons (IEV 195-04-02) or skilled persons (IEV 195-04-01) only.

These accessories and cable assemblies are intended to be used for circuits specified in IEC 61851 (all parts), which operate at different voltages and frequencies, and which can include extra-low voltage and communication signals.

These accessories and cable assemblies are intended to be used at an ambient temperature between $-30\text{ }^{\circ}\text{C}$ and $+40\text{ }^{\circ}\text{C}$.

These accessories are intended to be connected only to cables with copper or copper-alloy conductors.

The accessories covered by this document are intended for use in electric vehicle supply equipment in accordance with IEC 61851 (all parts).

This document does not apply to standard plug and socket-outlets used for mode 1 and mode 2 according to IEC 61851-1:2017, 6.2.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment*, which could be applicable to plugs, socket-outlets, vehicle connectors and vehicle inlets for conductive charging of electric vehicles, are covered by this document, taken in conjunction with any other relevant requirements affecting safety.

This document is an adoption with national modifications, and has been reproduced from, IEC 62196-1:2022, *Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles — Part 1: General requirements*.

The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to IEC 62196-1:2022, for the application of this document in Australia and New Zealand.

As this document has been reproduced from an international document, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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