

Electric vehicle conductive charging system - Part 25:
DC EV supply equipment where protection relies on
electrical separation

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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EUROPEAN STANDARD
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EN IEC 61851-25

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English Version

Electric vehicle conductive charging system - Part 25: DC EV
supply equipment where protection relies on electrical separation
(IEC 61851-25:2020)

Systeme de charge par conduction pour véhicules
électriques - Partie 25: Système d'alimentation en courant
continu pour véhicules électriques dont la protection
s'appuie sur la séparation électrique
(IEC 61851-25:2020)

Konduktive Ladesysteme für Elektrofahrzeuge - Teil 25:
Gleichstromversorgungseinrichtungen für Elektrofahrzeuge
bei denen der Schutz von der elektrischen Trennung
abhängt
(IEC 61851-25:2020)

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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 69/735/FDIS, future edition 1 of IEC 61851-25, prepared by IEC/TC 69 "Electrical power/energy transfer systems for electrically propelled road vehicles and industrial trucks" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61851-25:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-10-08
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61851-21-1	NOTE	Harmonized as EN 61851-21-1
IEC 61851-23	NOTE	Harmonized as EN 61851-23
IEC 61851-24:2014	NOTE	Harmonized as EN 61851-24:2014 (not modified)
ISO 18246:2015	NOTE	Harmonized as EN ISO 18246:2017 (not modified)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

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Annex ZA of EN IEC 61851-1:2019 is applicable except as follows:

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-30	2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	2005
IEC 61140	2016	Protection against electric shock - Common aspects for installation and equipment	EN 61140	2016
IEC 61180	2016	High-voltage test techniques for low-voltage equipment - Definitions, test and procedure requirements, test equipment	EN 61180	2016
IEC 61439-7	2018	Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations	-	-
IEC 61851-1	2017	Electric vehicle conductive charging system - Part 1: General requirements	EN IEC 61851-1	2019
IEC 62477-1	2012	Safety requirements for power electronic converter systems and equipment - Part 1: General	EN 62477-1	2012
-	-		+ A11	2014
-	-		+ A12	2021
IEC 62893-4-1	2020	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 4-1: Cables for DC charging according to mode 4 of IEC 61851-1 - DC charging without use of a thermal management system	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 3297	2017	Information and documentation - International standard serial number (ISSN)	-	-
ISO 11898-1	2015	Road vehicles - Controller area network (CAN) - Part 1: Data link layer and physical signalling	-	-
ISO 11898-2	2016	Road vehicles - Controller area network (CAN) - Part 2: High-speed medium access unit	-	-

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electric vehicle conductive charging system –
Part 25: DC EV supply equipment where protection relies on electrical
separation**

**Système de charge par conduction pour véhicules électriques –
Partie 25: Système d'alimentation en courant continu pour véhicules électriques
dont la protection s'appuie sur la séparation électrique**





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IEC Central Office
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electric vehicle conductive charging system –
Part 25: DC EV supply equipment where protection relies on electrical
separation**

**Système de charge par conduction pour véhicules électriques –
Partie 25: Système d'alimentation en courant continu pour véhicules électriques
dont la protection s'appuie sur la séparation électrique**

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ELECTRIC VEHICLE CONDUCTIVE CHARGING SYSTEM –**Part 25: DC EV supply equipment where protection
relies on electrical separation****FOREWORD**

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The text of this International Standard is based on the following documents:

FDIS	Report on voting
69/735/FDIS	69/740/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This document is to be read in conjunction with IEC 61851-1:2017.

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INTRODUCTION

This document describes the specific requirements for DC EV supply equipment whose secondary circuit and EV are protected from the primary power supply circuit by electrical separation as defined in IEC 61140, where the connection to the separated circuit is limited to a single connection.