



SLOVENSKI STANDARD
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Brezžični sistemi za prenos električne energije za električna vozila (WPT) - 2. del: Posebne zahteve za komunikacijo med sistemom MF-WPT in dejavnostmi (IEC 61980-2:2023)

Electric vehicle wireless power transfer (WPT) systems - Part 2: Specific requirements for MF-WPT system communication and activities (IEC 61980-2:2023)

Kontaktlose Energieübertragungssysteme (WPT) für Elektrofahrzeuge - Teil 2: Besondere Anforderungen an die Kommunikation und Aktivitäten von MF-WPT-Systemen (IEC 61980-2:2023)

Systèmes de transfert de puissance sans fil (WPT) pour véhicules électriques - Partie 2: Exigences spécifiques pour la communication et les activités des systèmes MF-WPT (IEC 61980-2:2023)

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**Electric vehicle wireless power transfer (WPT) systems - Part 2:
Specific requirements for MF-WPT system communication and
activities
(IEC 61980-2:2023)**

Systèmes de transfert de puissance sans fil (WPT) pour
véhicules électriques - Partie 2: Exigences spécifiques pour
la communication et les activités des systèmes MF-WPT
(IEC 61980-2:2023)

Kontaktlose Energieübertragungssysteme (WPT) für
Elektrofahrzeuge - Teil 2: Besondere Anforderungen an die
Kommunikation und Aktivitäten von MF-WPT-Systemen
(IEC 61980-2:2023)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 61980-2:2023 (E)**European foreword**

The text of document 69/881/FDIS, future edition 1 of IEC 61980-2, 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 61980-2:2023.

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-06-07

This document supersedes CLC IEC/TS 61980-2:2020 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 61980-2:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60038:2009 NOTE Approved as EN 60038:2011

ISO 15118 (series) NOTE Approved as EN ISO 15118 (series)

ISO 19363:2020 NOTE Approved as EN ISO 19363:2021 (not modified)

Annex A (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.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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IEC 61980-3	2022	Electric vehicle wireless power transfer (WPT) systems - Part 3: Specific requirements for magnetic field wireless power transfer systems	EN IEC 61980-3	2022
ISO 15118-8	2020	Road vehicles - Vehicle to grid communication interface - Part 8: Physical layer and data link layer requirements for wireless communication	EN ISO 15118-8	2020
ISO 15118-20	-	Road vehicles - Vehicle to grid communication interface - Part 20: 2nd generation network layer and application layer requirements	EN ISO 15118-20	-



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**Electric vehicle wireless power transfer (WPT) systems –
Part 2: Specific requirements for MF-WPT system communication and activities**

**Systèmes de transfert de puissance sans fil (WPT) pour véhicules électriques –
Partie 2: Exigences spécifiques pour la communication et les activités des
systèmes MF-WPT**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRIC VEHICLE WIRELESS POWER
TRANSFER (WPT) SYSTEMS –****Part 2: Specific requirements for MF-WPT
system communication and activities**

FOREWORD

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IEC 61980-2 has been prepared by IEC technical committee 69: Electrical power/energy transfer systems for electrically propelled road vehicles and industrial trucks. It is an International Standard.

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

Draft	Report on voting
69/881/FDIS	69/896/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

In this document, the following print types are used:

- compliance statement: *italic type*;
- transitions in the state diagrams for infrastructure and vehicle: **bold type**;
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A list of all parts of the IEC 61980 series, published under the general title *Electric vehicle wireless power transfer (WPT) systems*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

The IEC 61980 series is published in separate parts according to the following structure:

- IEC 61980-1 covers general requirements for electric road vehicle (EV) wireless power transfer (WPT) systems including general background and definitions. (e.g. efficiency, electrical safety, EMC, EMF);
- IEC 61980-2 specifically applies to magnetic field wireless power transfer (MF-WPT) for electric road vehicles (EV) and covers specific system requirements including activities and communication between the electric road vehicle side and the off-board side including general background and definitions;
- IEC 61980-3 covers specific power transfer requirements for the off-board side of magnetic field wireless power transfer systems for electric road vehicles (e.g. efficiency, electrical safety, EMC, EMF).

Requirements for on-board side of MF-WPT for electric road vehicles are covered in ISO 19363.

This document has a structure that is independent of IEC 61980-1.

Reference to "technology specific parts" always refer to other parts of the IEC 61980 series.

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