

SLOVENSKI STANDARD
SIST EN IEC 63341-1:2026

01-marec-2026

**Železniške naprave - Vodikovi sistemi in sistemi gorivnih celic za tirna vozila - 1.
del: Sistem napajanja z gorivnimi celicami**

Railway applications - Hydrogen and fuel cell systems for rolling stock - Part 1: Fuel cell power system

Bahnwendungen - Fahrzeuge - Antriebe mit Brennstoffzellen-Energiesystemen - Teil 1: Brennstoffzellen-Energiesystem

Applications ferroviaires – Systèmes à hydrogène et à pile à combustible pour le matériel roulant – Partie 1: Système à pile à combustible

Ta slovenski standard je istoveten z: EN IEC 63341-1:2025

[SIST EN IEC 63341-1:2026](#)

<https://standards.itel.si/catalog/standards/ist/0051-02-a-1420-4110-1-fm-1e2e7e6-9160/ist-en-iec-63341-1-2026>

ICS:

27.070	Gorilne celice	Fuel cells
45.060.01	Železniška vozila na splošno	Railway rolling stock in general

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en

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 63341-1

November 2025

ICS 45.060.01; 27.070

English Version

Railway applications - Hydrogen and fuel cell systems for rolling stock - Part 1: Fuel cell power system
(IEC 63341-1:2025)

Applications ferroviaires - Systèmes à hydrogène et à pile à combustible pour le matériel roulant - Partie 1: Système à pile à combustible
(IEC 63341-1:2025)

Bahnanwendungen - Wasserstoff- und Brennstoffzellen-Energiesysteme für Bahnfahrzeuge - Teil 1: Brennstoffzellen-Energiesystem
(IEC 63341-1:2025)

This European Standard was approved by CENELEC on 2025-11-14. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 63341-1:2025 (E)**European foreword**

The text of document 9/3212/FDIS, future edition 1 of IEC 63341-1, prepared by TC 9 "Electrical equipment and systems for railways" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63341-1:2025.

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) 2026-11-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2028-11-30

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Endorsement notice

The text of the International Standard IEC 63341-1:2025 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 60349-2	NOTE	Approved as EN 60349-2
IEC 60349-4	NOTE	Approved as EN 60349-4
IEC 60751	NOTE	Approved as EN IEC 60751
IEC 60812	NOTE	Approved as EN IEC 60812
IEC 61133	NOTE	Approved as EN IEC 61133
IEC 61287-1	NOTE	Approved as EN 61287-1
IEC 61377	NOTE	Approved as EN 61377
IEC 61508 (series)	NOTE	Approved as EN 61508 (series)
IEC 61881-3	NOTE	Approved as EN 61881-3
IEC 61882	NOTE	Approved as EN 61882
IEC 62864-1:2016	NOTE	Approved as EN 62864-1:2016 (not modified)
IEC 62928	NOTE	Approved as EN IEC 62928
IEC 62973-1:2018	NOTE	Approved as prEN IEC 62973-1:2025 (not modified) to be published
ISO 9223	NOTE	Approved as EN ISO 9223

ISO 9614-1 NOTE Approved as EN ISO 9614-1

ISO 9614-2 NOTE Approved as EN ISO 9614-2

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EN IEC 63341-1:2025 (E)

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.

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

Publication	Year	Title	EN/HD	Year
IEC 60034-14		- Rotating electrical machines - Part 14: EN IEC 60034-14 Mechanical vibration of certain machines with shaft heights 56 mm and higher - Measurement, evaluation and limits of vibration severity		-
IEC 60077-1		- Railway applications - Electric equipment for rolling stock - Part 1: General service conditions and general rules	EN 60077-1	-
IEC 60529		- Degrees of protection provided by enclosures (IP Code)		-
IEC 60571		- Railway applications - Electronic equipment used on rolling stock		-
IEC 60617		- Standard data element types with associated classification scheme for electric components - Part 4: IEC reference collection of standard data element types and component classes		-
IEC 61373		- Railway applications - Rolling stock equipment - Shock and vibration tests	EN 61373	-
IEC 61709		- Electric components - Reliability - Reference conditions of failure rates and stress models for conversion	EN 61709	-
IEC 61991		- Railway applications - Rolling stock - Protective provisions against electrical hazards		-
IEC 62236-3-2		- Railway applications - Electromagnetic compatibility -- Part 3-2: Rolling stock - Apparatus		-
IEC 62282-2-100	2020	Fuel cell technologies - Part 2-100: Fuel cell modules - Safety	EN IEC 62282-2-100	2020
IEC 62282-3-100	2019	Fuel cell technologies - Part 3-100: Stationary fuel cell power systems - Safety	EN IEC 62282-3-100	2020

IEC 62282-4-101	2022	Fuel cell technologies - Part 4-101: Fuel cell power systems for electrically powered industrial trucks - Safety	EN IEC 62282-4-101	2022
IEC 62497-1	-	Railway applications - Insulation coordination - Part 1: Basic requirements - Clearances and creepage distances for all electrical and electronic equipment	-	-
IEC 62498-1	2010	Railway applications - Environmental conditions for equipment - Part 1: Equipment on board rolling stock	-	-
IEC 62635	-	Assessment of material recoverability rate of products	EN IEC 62635 ¹	-
IEC 63341-3	2025	Railway applications - Fuel cell systems for rolling stock - Part 3: Performance test methods for fuel cell power system	EN IEC 63341-3	²
IEC 61375-1	-	Electronic railway equipment - Train communication network (TCN) - Part 1: General architecture	EN 61375-1	-
ISO 3744	-	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane	EN ISO 3744	-
ISO 3746	-	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane	EN ISO 3746	-
ISO 7010	-	Graphical symbols - Safety colours and safety signs - Registered safety signs	EN ISO 7010	-
ISO 9227	-	Corrosion tests in artificial atmospheres - Salt spray tests	EN ISO 9227	-
ISO 14687	-	Hydrogen fuel quality - Product specification	-	-
ISO 21106	-	Railway applications - Recyclability and recoverability calculation method for rolling stock	-	-
ISO 23828	-	Fuel cell road vehicles - Energy consumption measurement - Vehicles fuelled with compressed hydrogen	-	-

¹ Under preparation. Stage at the time of publication: prEN IEC 62635:2025.

² Under preparation. Stage at the time of publication: FprEN IEC 63341-3:2025.