
Električne inštalacije za razsvetljavo in signalizacijo na letališčih - 3-2. del: Zahteve za napajalnike - Posebne zahteve za zaporedna vezja (IEC 61820-3-2:2023)

Electrical installations for lighting and beaconing of aerodromes - Part 3-2: Requirements for power supplies - Particular requirements for series circuits (IEC 61820-3-2:2023)

Elektrische Anlagen für die Beleuchtung und Befeuerung von Flugplätzen – Besondere Anforderungen an Serienkreisstromversorgungen (IEC 61820-3-2:2023)

Installations électriques d'éclairage et de balisage des aérodromes - Partie 3-2 : Exigences relatives aux alimentations électriques - Exigences particulières aux circuits en série (IEC 61820-3-2:2023)

Ta slovenski standard je istoveten z: IEC EN IEC 61820-3-2:2023

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NORME EUROPÉENNE
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EN IEC 61820-3-2

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English Version

**Electrical installations for lighting and beaconing of aerodromes -
Part 3-2: Requirements for power supplies - Particular
requirements for series circuits
(IEC 61820-3-2:2023)**

Installations électriques pour l'éclairage et le balisage des
aérodromes - Partie 3-2 : Exigences relatives aux
alimentations électriques - Exigences particulières relatives
aux circuits série
(IEC 61820-3-2:2023)

Elektrische Anlagen für die Beleuchtung und Befeuerung
von Flugplätzen - Besondere Anforderungen an
Serienkreisstromversorgungen
(IEC 61820-3-2:2023)

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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 61820-3-2:2023 (E)**European foreword**

The text of document 97/264/FDIS, future edition 1 of IEC 61820-3-2, prepared by IEC/TC 97 "Electrical installations for lighting and beaconing of aerodromes" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61820-3-2:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-08-14 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-11-14 document have to be withdrawn

This document supersedes EN 61822:2009 and all of its amendments and corrigenda (if any).

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Endorsement notice

The text of the International Standard IEC 61820-3-2:2023 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 60099-4:2014 NOTE Approved as EN 60099-4:2014 (not modified)

IEC 60529 NOTE Approved as EN 60529

IEC 60664-1:2020 NOTE Approved as EN IEC 60664-1:2020 (not modified)

IEC 60721-3-3 NOTE Approved as EN IEC 60721-3-3

IEC 61000-3-2 NOTE Approved as EN IEC 61000-3-2

IEC 61000-3-12 NOTE Approved as EN 61000-3-12

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IEC 61820-3-4 NOTE Approved as EN IEC 61820-3-4

IEC 61822:2009 NOTE Approved as EN 61822:2009 (not modified)

IEC 62305-1 NOTE Approved as EN 62305-1

IEC 62305-2 NOTE Approved as EN 62305-2

IEC 62305-3 NOTE Approved as EN 62305-3

IEC 62443-4-2 NOTE Approved as EN IEC 62443-4-2

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60038	-	IEC standard voltages	EN 60038	-
IEC 60076-11	-	Power transformers - Part 11: Dry-type transformers	EN IEC 60076-11	-
IEC 61000-6-4	-	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	EN IEC 61000-6-4	-
IEC 61000-6-5	-	Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment	EN 61000-6-5	-
IEC 61439-1	-	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	EN IEC 61439-1	-
IEC 61439-2	-	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	EN IEC 61439-2	-
IEC 61508	series	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 1: General requirements	EN 61508	series
IEC 61820-1	2019	Electrical installations for aeronautical ground lighting at aerodromes - Part 1: Fundamental principles	EN IEC 61820-1	2019
IEC 62477-1	2022	Safety requirements for power electronic converter systems and equipment - Part 1: General	EN IEC 62477-1	2023
IEC 62477-2	2018	Safety requirements for power electronic converter systems and equipment - Part 2: Power electronic converters from 1 000 V AC or 1 500 V DC up to 36 kV AC or 54 kV DC	EN IEC 62477-2	2018

EN IEC 61820-3-2:2023 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
CISPR 11	-	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	EN 55011	-
CISPR 32	-	Electromagnetic compatibility of multimedia equipment - Emission requirements	-	-

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Edition 1.0 2023-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical installations for lighting and beaconing of aerodromes –
Part 3-2: Requirements for power supplies – Particular requirements for series
circuits**

**Installations électriques pour l'éclairage et le balisage des aérodromes –
Partie 3-2 : Exigences relatives aux alimentations électriques – Exigences
particulières relatives aux circuits série**

[SIST EN IEC 61820-3-2:2024](https://standards.iteh.ai/catalog/standards/sist/5f138bb8-3770-4571-bc7a-969b7724c946/sist-en-iec-61820-3-2-2024)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL INSTALLATIONS FOR LIGHTING
AND BEACONING OF AERODROMES –****Part 3-2: Requirements for power supplies –
Particular requirements for series circuits**

FOREWORD

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IEC 61820-3-2 has been prepared by IEC technical committee 97: Electrical installations for lighting and beaconing of aerodromes. It is an International Standard.

This first edition cancels and replaces IEC 61822 published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 61822:2009:

- a) introduction of power electronic converter systems (PECS) to be used in the aeronautical ground lighting systems other than the 6,6 A aeronautical ground lighting systems;
- b) introduction of classification for different device types;

- c) introduction of IEC 62477-1:2022 and IEC 62477-2:2018 as the basis for safety related requirements.

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

Draft	Report on voting
97/264/FDIS	97/265/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/publications.

A list of all parts in the IEC 61820 series, published under the general title *Electrical installations for lighting and beaconing of aerodromes*, can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

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

- reconfirmed,
- withdrawn, or
- revised.

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