

**Alarm systems - Intrusion and hold-up systems - Part 6:
Power supplies**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 50131-6:2017+A1:2021 sisaldab Euroopa standardi EN 50131-6:2017 ja selle muudatuse A1:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 50131-6:2017+A1:2021 consists of the English text of the European standard EN 50131-6:2017 and its amendment A1:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 27.10.2017, muudatus A1 18.06.2021.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 27.10.2017, for A1 18.06.2021.
Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega A1 A1 . Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags A1 A1 . The standard is available from the Estonian Centre for Standardisation and Accreditation.

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English Version

Alarm systems - Intrusion and hold-up systems - Part 6: Power supplies

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et les hold-up - Partie 6: Alimentation

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil 6: Energieversorgungen

This European Standard was approved by CENELEC on 2017-09-18. Amendment A1 was approved by CENELEC on 2021-05-25. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard and its amendment the status of a national standard without any alteration.

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European foreword

This document (EN 50131-6:2017) has been prepared by CLC/TC 79 "Alarm systems".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2018-09-18
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2020-09-18

This document supersedes EN 50131-6:2008.

The revision is to make the document less technology specific and more inclusive of the different types of power supplies found in I&HAS and the different types of technologies that are, and can be, employed within a power supply. It will make the document easier to use and more clearly applicable to the range of PSU configurations to be found in I&HAS.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

A1 Amendment A1 European foreword

This document (EN 50131-6:2017/A1:2021) has been prepared by CLC/TC 79 "Alarm systems".

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- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2024-05-25

This document amends EN 50131-6:2017.

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Introduction

This European Standard deals with power supplies (PS) of intrusion and hold-up alarm systems (I&HAS) installed in buildings. It includes devices that are installed inside or outside of the supervised premises and mounted in indoor or outdoor environments.

The PS may be fully contained in its own housing or it may be integrated with other components within an I&HAS, e.g. the control and indicating equipment (CIE).

An I&HAS may use one or more PS.

1 Scope

This European Standard specifies the requirements, performance criteria and testing procedures for PS to be used as part of Intrusion and Hold up Alarm Systems. The PS will either be an integral part of an I&HAS component or stand-alone. The control functions of the PS may be incorporated as part of the PS device, or may be provided by another I&HAS component, e.g. a CIE.

This European Standard is not applicable when the PS requirements for I&HAS components are included within the relevant product standard.

The requirements correspond to each of the four security grades given in the European Standard EN 50131-1, *Alarm Systems – Intrusion and Hold-Up Systems – Part 1: System requirements*. Requirements are also given for four environmental classes covering applications in indoor and outdoor locations.

This standard covers:

- a) mandatory functions which will be provided on all PS; and
- b) optional functions which may be provided.

This European Standard does not deal with requirements for compliance with EC regulatory Directives, such as the EMC Directive, Low Voltage Directive, etc. except that it specifies the equipment operating conditions and reduced functional test for EMC susceptibility testing as required by EN 50130-4.

Other functions associated with I&HAS not specified in this standard may be provided. Such functions will not affect the requirements of any mandatory or optional functions.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50130-4, *Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems*

EN 50130-5, *Alarm systems - Part 5: Environmental test methods*

EN 50131-1, *Alarm systems - Intrusion and hold-up systems - Part 1: System requirements*

EN 60068-2-14:2009, *Environmental testing - Part 2-14: Tests - Test N: Change of temperature (IEC 60068-2-14:2009)*

EN 60529, *Degrees of protection provided by enclosures (IP Code) (IEC 60529)*

EN 62262, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (IEC 62262)*

3 Terms, definitions and abbreviations

For the purposes of this document, the following terms, definitions and abbreviations apply.

3.1 Terms and definitions

3.1.1

alternative power source

power source capable of powering the I&HAS for a predetermined time when the prime power source is unavailable