



BSI Standards Publication

Alarm systems – Intrusion and hold-up systems

Part 6: Power supplies

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National foreword

This British Standard is the UK implementation of EN 50131-6:2017. It supersedes BS EN 50131-6:2008+A1:2014, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GW/1/1, Alarm components.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil 6: Energieversorgungen

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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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms, definitions and abbreviations	7
3.1 Terms and definitions	7
3.2 Abbreviations	9
4 Functional requirements	9
4.1 PS configurations	9
4.2 General requirements	10
4.3 Monitoring of PS	13
4.4 APS capability	17
4.5 Recharging for PS Type A	17
4.6 Over-voltage protection	18
4.7 Short circuit protection	18
4.8 Overload protection	18
4.9 Deep discharge protection	18
4.10 Ripple	18
4.11 Tamper security	18
4.12 Environmental	21
4.13 Safety	22
4.14 EMC susceptibility	22
4.15 Electrical	22
5 Marking	23
6 Documentation	23
7 Tests	24
7.1 General	24
7.2 General test conditions	25
7.3 Reduced functional test	26
7.4 Monitoring: Loss of EPS	26
7.5 Monitoring: Storage Device Low Residual Energy	27
7.6 Monitoring: Storage Device Failure	30
7.7 Monitoring: Low Output Voltage	30
7.8 Monitoring: Power Unit Failure – Loss of PU Power Output	31

This is a preview of "BS EN 50131-6:2017". [Click here to purchase the full version from the ANSI store.](#)

7.9	Monitoring: Power Unit Failure – Loss of SD Recharge	32
7.10	Test on demand	32
7.11	APS Capability	33
7.12	Recharging for PS Type A	34
7.13	Over voltage protection	35
7.14	Short Circuit Protection	36
7.15	Overload Protection	37
7.16	Deep Discharge Protection	38
7.17	Tamper security - Protection	39
7.18	Tamper Detection – Access to inside of the housing	39
7.19	Tamper detection – Removal from mounting	40
7.20	Tamper detection – Penetration of the housing	41
7.21	Environmental and EMC	42
7.22	PS Rating	42
7.23	Output voltage stability - Gradual load variation	45
7.24	Output Voltage Stability – Switched Load Variation	46
7.25	Marking and Documentation	47
Annex A	(informative) Determination of Storage Device failure	48
Annex B	(normative) Measurement of ripple voltage	49
B.1	General	49
B.2	Principle	49
B.3	Test conditions	49
B.4	Measurement	49
B.5	Pass/Fail Criteria	49
Annex C	(normative) Measurement of transients	50
C.1	General	50
C.2	Principle	50
C.3	Test conditions	50
C.4	Measurement	50
C.5	Pass/Fail Criteria	50
Annex D	(informative) Test on Demand signal or message timing and usage protocol	51
Annex E	(informative) Cross-reference between requirements and corresponding tests	52

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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.

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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.

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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)*