ICS 29.020 SLOVENSKÁ TECHNICKÁ NORMA Január 2024

STN	**Systémy energetickej účinnosti** **Jednoduchý externý používateľský displej**	**STN** **EN IEC 63345** 36 8054

Energy efficiency systems - Simple external consumer display

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/23

Obsahuje: EN IEC 63345:2023, IEC 63345:2023

Oznámením tejto normy sa od 25.10.2026 ruší
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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 63345

October 2023

ICS 27.015; 29.020

Supersedes EN 50491-11:2015;
EN 50491-11:2015/A1:2020

English Version

Energy efficiency systems - Simple external consumer display (IEC 63345:2023)

Systèmes pour l'efficacité énergétique - Affichage simple et externe du client
(IEC 63345:2023)

Energie-Effizienz-Systeme - Einfache externe Verbraucheranzeige
(IEC 63345:2023)

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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

Ref. No. EN IEC 63345:2023 E

European foreword

The text of document 23K/87/FDIS, future edition 1 of IEC 63345, prepared by SC 23K "Electrical Energy Efficiency products" of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63345:2023.

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)	2024-07-25
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2026-10-25

This document supersedes EN 50491-11:2015 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 63345:2023 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 62056 (series) NOTE Approved as EN 62056 (series)

IEC 62056-5-3:2017 NOTE Approved as EN 62056-5-3:2017 (not modified)

IEC 62056-6-1:2017 NOTE Approved as EN 62056-6-1:2017 (not modified)

IEC 62056-6-2:2017 NOTE Approved as EN IEC 62056-6-2:2018 (not modified)

IEC 62746 (series) NOTE Approved as EN IEC 62746 (series)[1]

[1] To be published.

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
ISO 4217	-	Codes for the representation of currencies	-	-
ISO/IEC 8859-1	-	Information technology - 8-bit single-byte coded graphic character sets - Part-1: Latin alphabet No. 1	-	-

IEC 63345

Edition 1.0 2023-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

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Systèmes pour l'efficacité énergétique – Affichage simple et externe du client

IEC 63345:2023-09(en-fr)

IEC 63345

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ENERGY EFFICIENCY SYSTEMS – SIMPLE EXTERNAL CONSUMER DISPLAY

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 63345 has been prepared by subcommittee 23K: Electrical energy efficiency products, of IEC technical committee 23: Electrical accessories. It is an International Standard.

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

Draft	Report on voting
23K/87/FDIS	23K/89/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.

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

IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

The reduction of CO_2 emissions is one the most challenging tasks today.

Providing the consumers with more information about their energy usage will allow them to make more informed choices and hence reductions.

Standardizing the communications interfaces between the metering systems and display will allow interoperability between the meter and display.

ENERGY EFFICIENCY SYSTEMS – SIMPLE EXTERNAL CONSUMER DISPLAY

1 Scope

This document specifies a data model to abstract the metering world towards a simple external consumer display. The data model, as described by means of functional blocks contained in this document, lays down the format of metering data accessible by a simple external consumer display. This data interface would be typically part of the meter communication functions and be accessed by a simple external consumer display via the H1 interface of CEN/CLC/ETSI TR 50572 between the display and the meter communication functions.

The data interface specified in this document may also be accessed by the LNAP or NNAP through the C or M interface, after which the data could be accessed by HBES devices through the H2 and H3 interfaces.

In other words, in this way the same data model can be used both on the H1 as well as the H2 and H3 interfaces.

This document does not specify the communication mechanisms used on the data interface, nor the applied data privacy and security mechanisms, nor the ergonomics of the simple external consumer displays, where national regulations can apply.

The document does also not specify the communication protocol used between the meters and the meter communication functions. However, it takes into account existing standards such as the EN 13757 series (in particular EN 13757-3:2018 and its Annex H) and the IEC 62056 series for the definition of the data model.

2 Normative references

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.

ISO/IEC 8859-1, *Information technology – 8-bit single-byte coded graphic character sets – Part 1: Latin alphabet No. 1*

ISO 4217, *Codes for the representation of currencies*