



SLOVENSKI STANDARD
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LED light source characteristics - Part 1: Data sheets (IEC 63356-1:2023)

Eigenschaften von LED-Lichtquellen - Teil 1: Datenblätter (IEC 63356-1:2023)

Caractéristiques de source lumineuse à LED Partie 1: Feuilles de caractéristiques (IEC 63356-1:2023)

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LED light source characteristics - Part 1: Data sheets (IEC 63356-1:2023)

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Feuilles de caractéristiques
(IEC 63356-1:2023)

Eigenschaften von LED-Lichtquellen - Teil 1: Datenblätter
(IEC 63356-1:2023)

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Comité Européen de Normalisation Electrotechnique
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EN IEC 63356-1:2023 (E)**European foreword**

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**LED light source characteristics –
Part 1: Data sheets**

**Caractéristiques de source lumineuse à LED –
Partie 1: Feuilles de caractéristiques**

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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms and definitions	7
4 Overview and common information	7
4.1 General.....	7
4.2 Numbering system	7
4.3 List of data sheets	8
4.3.1 List of single-capped LED lamp data sheets	8
4.3.2 List of double-capped LED lamp data sheets	8
4.3.3 List of LED module data sheets	10
5 Single-capped LED lamp data sheets	11
5.1 Single-capped LED lamps with GH36d caps.....	11
5.1.1 Diagrammatic information for location of lamp dimensions	11
5.1.2 Data sheets	12
5.2 Other single-capped LED lamps.....	17
6 Double-capped LED lamp data sheets	17
6.1 Linear double-capped LED lamps with GX16t-5 caps	17
6.1.1 Diagrammatic information for location of lamp dimensions	17
6.1.2 Data sheets	19
6.2 Linear double-capped LED lamps with GJ6.6 caps.....	28
6.2.1 Diagrammatic information for location of lamp dimensions	28
6.2.2 GJ6.6 lamp data sheets	29
6.3 Linear double-capped LED lamps with GR6d caps	44
6.3.1 Diagrammatic information for location of lamp dimensions	44
6.3.2 Information for luminaire design.....	45
6.3.3 Data sheets	46
7 LED module data sheets.....	51
Bibliography.....	52
Figure 1 – Location of dimensions of single-capped lamps with a GH36d cap	11
Figure 2 – Location of dimensions of linear double-capped lamps with GX16t-5 caps	18
Figure 3 – Location of dimensions of linear double-capped lamps with GJ6.6 caps	29
Figure 4 – Dimensions of linear double-capped lamps with GR6d caps	45
Figure 5 – Mechanical dimensions for luminaire design.....	45
Table 1 – List of data sheets for non-integrated single-capped LED lamps.....	8
Table 2 – List of data sheets for semi-integrated single-capped LED lamps	8
Table 3 – List of data sheets for integrated single-capped LED lamps.....	8

Table 4 – List of data sheets for non-integrated double-capped LED lamps	9
Table 5 – List of data sheets for semi-integrated double-capped LED lamps	9
Table 6 – List of data sheets for integrated double-capped LED lamps	10
Table 7 – List of data sheets for non-integrated LED modules.....	10
Table 8 – List of data sheets for semi-integrated LED modules	10
Table 9 – List of data sheets for integrated LED modules	10

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LED LIGHT SOURCE CHARACTERISTICS –

Part 1: Data sheets

FOREWORD

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IEC 63356-1 has been prepared by subcommittee 34A: Electric light sources, of IEC technical committee 34: Lighting. It is an International Standard.

This second edition cancels and replaces the first edition published in 2022. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) addition of datasheets for GH36d capped LED lamps;
- b) addition of datasheets for GJ6.6t and GJ6.6d-1 capped LED lamps;
- c) addition of datasheets for GR6d capped LED lamps.

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

Draft	Report on voting
34A/2363/FDIS	34A/2372/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 63356 series, published under the general title *LED light source characteristics*, can be found on the IEC website.

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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INTRODUCTION

The IEC 63356 series (LED light source characteristics) is split into two parts:

- IEC 63356-1: Data sheets

The scope of IEC 63356-1 covers data sheets that are comprehensive specifications for unique LED light sources (LED lamp or LED module). These are full specifications for products including, where necessary, information on interchangeability aspects, for example mechanical, electrical, optical.

Each data sheet in IEC 63356-1 relates to an individual type of LED lamp or LED module.

- IEC 63356-2: Design parameters and values

The scope of IEC 63356-2 covers design parameters and values that are used in the design of an LED light source (LED lamp or LED module) or a related component. IEC 63356-2 does not provide full product specifications but includes important interface aspects (e.g. mechanical, electrical, optical) that should be taken account of in the design of LED light sources and related components.

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LED LIGHT SOURCE CHARACTERISTICS –

Part 1: Data sheets

1 Scope

This part of IEC 63356 specifies data sheets of LED lamps and LED modules with a series of parameters per data sheet for a specific LED light source that enables interchangeability between products from different LED light source manufacturers.

Compliance criteria relating to data sheet parameters in this document are covered by IEC 63220¹ for safety, or IEC 63221² for performance.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

4 Overview and common information

<https://standards.iteh.ai/catalog/standards/sist/c6a31010-b8a4-45c3-8c8a-617ad1e33178/sist-en-iec-63356-1-2024>

4.1 General

Dimensions are specified at a temperature of (25 ± 5) °C, unless otherwise specified

4.2 Numbering system

Data sheets are numbered so that:

- the first part represents the number of the publication "63356-1", followed by the letters "IEC";
- the second three-digit number represents the data sheet group;
- the third four-digit number represents the data sheet number;
- the fourth single-digit number represents the data sheet edition.

NOTE In cases where a data sheet comprises more than one page, all pages of the specific data sheet are issued with the same updated edition number.

¹ Under preparation. Stage at the time of publication IEC CDV 63220:2023.

² Under preparation. Stage at the time of publication IEC CDV 63221:2023.

Data sheet numbers are grouped as follows:

- single-capped LED lamp data sheets:
 - non-integrated 100-xxxx;
 - semi-integrated 110-xxxx;
 - integrated 120-xxxx;
- double-capped LED lamp data sheets:
 - non-integrated 200-xxxx;
 - semi-integrated 210-xxxx;
 - integrated 220-xxxx;
- LED module data sheets:
 - non-integrated 300-xxxx;
 - semi-integrated 310-xxxx;
 - integrated 320-xxxx.

EXAMPLE 63356-1-IEC-110-0001-1: Single-capped LED lamp, semi-integrated, number 0001, version 1.

4.3 List of data sheets

4.3.1 List of single-capped LED lamp data sheets

Table 1, Table 2 and Table 3 provide a summary of data sheets for non-integrated, semi-integrated and integrated single-capped LED lamps respectively.

Table 1 – List of data sheets for non-integrated single-capped LED lamps

Sheet no. 63356-1-IEC- 1xx-xxxx	Shape	Rated diameter mm	Rated current	Power range W	Cap
100-0001-1	round	50	0,25 A DC	5,0 to 12,5	GH36d-1
100-0002-1	round	50	0,35 A DC	7,0 to 17,5	GH36d-2
100-0003-1	round	50	0,5 A DC	10,0 to 25,0	GH36d-3
100-0004-1	round	50	0,7 A DC	14,0 to 35,0	GH36d-4
100-0005-1	round	50	0,9 A DC	18,0 to 45,0	GH36d-5
100-0006-1	round	50	1,1 A DC	22,0 to 55,0	GH36d-6

Table 2 – List of data sheets for semi-integrated single-capped LED lamps

Void

Table 3 – List of data sheets for integrated single-capped LED lamps

Void

4.3.2 List of double-capped LED lamp data sheets

Table 4, Table 5 and Table 6 provide a summary of data sheets for non-integrated, semi-integrated and integrated double-capped LED lamps respectively.

Table 4 – List of data sheets for non-integrated double-capped LED lamps

Sheet no. 63356-1-IEC- 2xx-xxxx	Shape	Nominal length mm	Rated diameter mm	Rated current	Power range W	Cap
200-0001-1	linear	600	25,5	0,35 A DC	7,9 to 16,6	GX16t-5
200-0002-1	linear	600	32,5	0,35 A DC	7,9 to 16,6	GX16t-5
200-0003-1	linear	900	25,5	0,35 A DC	11,0 to 24,8	GX16t-5
200-0004-1	linear	900	32,5	0,35 A DC	11,0 to 24,8	GX16t-5
200-0005-1	linear	1 200	25,5	0,35 A DC	14,3 to 33,3	GX16t-5
200-0006-1	linear	1 200	32,5	0,35 A DC	14,3 to 33,3	GX16t-5
200-0007-1	linear	1 500	25,5	0,35 A DC	14,3 to 42,0	GX16t-5
200-0008-1	linear	1 500	32,5	0,35 A DC	14,3 to 42,0	GX16t-5
200-0009-1	linear	2 400	25,5	0,35 A DC	28,7 to 66,5	GX16t-5
200-0010-1	linear	2 400	32,5	0,35 A DC	28,7 to 66,5	GX16t-5
200-0011-1	linear	600		0,35 A DC	7,0 to 17,5	GR6d-1
200-0012-1	linear	900		0,5 A DC	10,0 to 25,0	GR6d-2
200-0013-1	linear	1200		0,7 A DC	14,0 to 35,0	GR6d-3
200-0014-1	linear	1 200		1,05 A DC	21,0 to 52,5	GR6d-4
200-0015-1	linear	1 500		1,05 A DC	21,0 to 52,5	GR6d-4
200-0016-1	linear	1 500		1,4 A DC	28,0 to 70,0	GR6d-5
200-0017 ^a				reserved		GR6d-6
200-0018 ^a				reserved		GR6d-7
200-0019 ^a				reserved		GR6d-8
200-0020 ^a				reserved		GR6d-9

^a No data sheet available.

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Table 5 – List of data sheets for semi-integrated double-capped LED lamps

Void

Table 6 – List of data sheets for integrated double-capped LED lamps

Sheet no. 63356-1-IEC- 2xx-xxxx	Shape	Nominal length	Maximum outline diameter	Rated voltage	Power range	Cap
		mm	mm	V AC	W	
220-0001-1	linear	550	17,0	108 to 382	7,0 to 13,0	GJ6.6t
220-0002-1	linear	600	26,7	108 to 382	8,0 to 17,0	GJ6.6t
220-0003-1	linear	850	17,0	108 to 382	10,0 to 16,0	GJ6.6t
220-0004-1	linear	900	26,7	108 to 382	11,5 to 25,0	GJ6.6t
220-0005-1	linear	1150	17,0	108 to 382	13,0 to 31,0	GJ6.6t
220-0006-1	linear	1200	26,7	108 to 382	9,9 to 32,0	GJ6.6t
220-0007-1	linear	1450	17,0	108 to 382	18,0 to 37,0	GJ6.6t
220-0008-1	linear	2400	26,7	108 to 382	30,0 to 65,0	GJ6.6t
220-0009-1	linear	550	17,0	108 to 382	7,0 to 13,0	GJ6.6d-1
220-0010-1	linear	600	26,7	108 to 382	8,0 to 17,0	GJ6.6d-1
220-0011-1	linear	850	17,0	108 to 382	10,0 to 16,0	GJ6.6d-1
220-0012-1	linear	900	26,7	108 to 382	11,5 to 25,0	GJ6.6d-1
220-0013-1	linear	1150	17,0	108 to 382	13,0 to 31,0	GJ6.6d-1
220-0014-1	linear	1200	26,7	108 to 382	9,9 to 32,0	GJ6.6d-1
220-0015-1	linear	1450	17,0	108 to 382	18,0 to 37,0	GJ6.6d-1
220-0016-1	linear	2400	26,7	108 to 382	30,0 to 65,0	GJ6.6d-1
220-0017 ^a	linear			100 to 127		GR6d-10
220-0018 ^a	linear			200 to 254		GR6d-11
220-0019 ^a	linear			250 to 288		GR6d-12
220-0020 ^a			reserved			GR6d-13
220-0021 ^a	linear			100 to 288		GR6d-14
220-0022 ^a			reserved			GR6d-15

^a No data sheet available.

4.3.3 List of LED module data sheets

Table 7, Table 8 and Table 9 provide a summary of data sheets for non-integrated, semi-integrated and integrated LED modules respectively.

Table 7 – List of data sheets for non-integrated LED modules

Void

Table 8 – List of data sheets for semi-integrated LED modules

Void

Table 9 – List of data sheets for integrated LED modules

Void
