



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 32483.2-2021

**Energy performance of lamp controlgear - Part 2: Controlgear for high
intensity discharge lamps(excluding fluorescent lamps) - Method of
measurement to determine the efficiency of controlgear**

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Foreword

This document was drafted as per the rules specified in GB/T 1.1-2020 Directives for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents. This Document is Part 2 of GB/T 32483 Energy Performance of Lamp Controlgear. GB/T

32483 has published the following parts:

- Part 1: Controlgear for Fluorescent Lamps - Method of Measurement to Determine the Total Input Power of Controlgear Circuits and the Efficiency of the Controlgear;
- Part 2: Controlgear for High Intensity Discharge Lamps (Excluding Fluorescent Lamps) -Method of Measurement to Determine the Efficiency of Controlgear;
- Part 3: Controlgear for Halogen Lamps and LED Modules-Method of Measurement to Determine the Efficiency of the Controlgear.

This Document used translation method to equivalently adopt IEC 62442-2:2018 Energy Performance of Lamp Controlgear - Part 2: Controlgear for High Intensity Discharge Lamps (Excluding Fluorescent Lamps) - Method of Measurement to Determine the Efficiency of Controlgear.

Please note some contents of this Document may involve patents. The issuing agency of this

Document shall not assume the responsibility to identify these patents.

This Document was proposed by China National Light Industry Council.

This Document shall be under the jurisdiction of National Technical Committee on Electrical

Lighting of Standardization Administration of China (SAC/TC 224).

Drafting organization of this Document: Guangdong Zhongliang Testing Co., Ltd.; National Lighting Test Center on Electric Light Source (Beijing); and Anhui Joyo Electric Co., Ltd.

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Energy Performance of Lamp Controlgear - Part 2:

Controlgear for High Intensity Discharge Lamps (Excluding Fluorescent Lamps) - Method of Measurement to Determine the Efficiency of Controlgear

1 Scope

This Document defines a measurement method of the power losses of electromagnetic controlgear, the total input power and the standby power of electronic controlgear for high intensity discharged lamps (excluding fluorescent lamps). A calculation method of the efficiency of controlgear for high intensity discharged lamp(s) is also defined.

This Document assumes that the controlgear are designed for use on DC supplies up to 1 000

V and/or AC supplies up to 1 000 V at 50 Hz or 60 Hz. This Document applies to electrical controlgear-lamp circuits comprised solely of the controlgear and of the lamp(s).

NOTE: Requirements for testing individual controlgear during production are not included.

This Document specifies the measurement method for the total input power, the standby power

and the calculation method of the lamp controlgear efficiency for all controlgear sold for domestic and normal commercial purposes operating with high intensity discharge lamps.

This Document does not apply to:

- controlgear which form an integral part of lamps;
- controlgear circuits with capacitors connected in series;
- controllable electromagnetic controlgear.

2 Normative References

The provisions in following documents become the essential provisions of this Document

through reference in this Document. For the dated documents, only the versions with the dates

indicated are applicable to this Document; for the undated documents, only the latest version

(including all the amendments) is applicable to this Document.

IEC 61347-1:2015 Lamp Controlgear - Part 1: General and Safety Requirements

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