



ANSI C82.11-2023

*American National Standard for Lamp Ballasts—
High Frequency Fluorescent Lamp Ballasts*

Secretariat:

National Electrical Manufacturers Association

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American National Standards Institute, Inc.

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Foreword

This foreword is not part of ANSI C82.11-2023.

This is a revision of ANSI C82.11-2017.

Suggestions for improvement of this standard will be welcome. They should be sent to the following address:

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This standard was developed and approved for submittal to ANSI by the C82 Committee. Approval of this standard is not meant to imply that all committee members voted to approve it.

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1 Scope

1.1 This standard is intended to cover high frequency ballasts that have rated open-circuit voltages of 2,000 volts or less, operate the lamp at frequencies between 10 kHz and 500 kHz, and are intended to operate at a supply frequency of 50 Hz or 60 Hz. This comprises ballasts for hot-cathode fluorescent lamps, either switch-start (preheat-start), rapid-start (continuously heated cathodes), modified rapid-start, programmed-start, or instant-start used primarily for lighting, germicidal, or industrial purposes. The ballast and lamp combinations covered by this specification are normally intended for use in room ambient temperatures of 10°C to 40°C. At ambient temperatures outside this range, certain special operating characteristics may be required.

1.2 Important patent disclaimer

At the time of publication, it is possible that some of the elements of this document may be the subject of patent rights. When this standard was approved for publication, the National Electrical Manufacturers Association (NEMA) did not know of any patent applications, patents pending, or existing patents. NEMA shall not be held responsible for identifying any or all such patent rights.

2 References

2.1 Normative references

The following standards contain provisions, which through reference in this text constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this American National Standard are encouraged to investigate the possibility of applying the most recent edition of the standards indicated below.

ANSI/NFPA 70	<i>National Electrical Code®</i>
ANSI/IEEE C62.41 (Parts 1 & 2)	<i>Guide for Surge Voltages in Low-Voltage AC Power Circuits</i>
ANSI C78.375A	<i>Fluorescent Lamps—Guide for Electrical Measures</i>
ANSI C78.81	<i>Double-Capped Fluorescent Lamps—Dimensional and Electrical Characteristics</i>
ANSI C78.901	<i>Single-Based Fluorescent Lamps—Dimensional and Electrical Characteristics</i>
ANSI C82.2	<i>Method of Measurement of Fluorescent Lamp Ballasts</i>
ANSI C82.3	<i>Reference Ballasts for Fluorescent Lamps</i>
ANSI C82.13	<i>Definitions—for Fluorescent Lamps and Ballasts</i>
ANSI C82.77-5	<i>Lighting Equipment—Voltage Surge Requirements</i>
ANSI C82.77-10	<i>Harmonic Emission Limits—Related Power Quality Requirements</i>
ANSI C137.1	<i>Lighting Systems—0-10 V Dimming Interface for LED Drivers, Fluorescent Ballasts, and Controls</i>
ANSI C137.4	<i>Lighting Systems—Interoperability of LED Drivers and Other Connected Devices Via the Digital Addressable Lighting Interface</i>