



ANSI/NEMA C82.11-2017

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



National Electrical Manufacturers Association
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*American National Standard for Lamp Ballasts—
High Frequency Fluorescent Lamp Ballasts*

Secretariat:

National Electrical Manufacturers Association

Approved: January 23, 2017

American National Standards Institute, Inc.

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Foreword (This foreword is not part of American National Standard C82.11-2017)

Suggestions for improvement of this standard should be submitted to the Secretariat C82, American National Standard Lighting Group, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209.

This standard was processed and approved by the Accredited Standards Committee on lamp ballasts, C82. Committee approval of the standard does not necessarily imply that all committee members voted for that approval.

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1 Scope

1.1 This standard is intended to cover high frequency ballasts which have rated open-circuit voltages of 2000 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 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 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 No. 70-2008 *National Electrical Code*[®]

ANSI/IEEE C62.41-2002 (Parts 1 & 2) *Guide for Surge Voltages in Low-Voltage AC Power Circuits*

ANSI_IEC C78.81-2010 *Double-capped Fluorescent Lamps—Dimensional and Electrical Characteristics*

ANSI_IEC C78.901-2005 *Single Base Fluorescent Lamps—Dimensional and Electrical Characteristics*

ANSI C82.2-2002 (R2007, R2016) *American National Standard Methods of Measurement of Fluorescent Lamp Ballasts*

ANSI C82.3-2016 *American National Standard Specification for Fluorescent Lamp Reference Ballasts*

ANSI C82.13-2002 *Definitions for Fluorescent Lamps and Ballasts*

ANSI C82.77-2002 *Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment*