



ANSI/NEMA C82.11 Consolidated-2002

American National Standard for High- Frequency Fluorescent Lamp Ballasts - Supplements



National Electrical Manufacturers Association
1300 North 17th Street, Suite 900 • Rosslyn, VA 22209
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American National Standard

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Secretariat: ANSLG--National Electrical Manufacturers Association

For Lamp Ballasts

High Frequency Fluorescent Lamp Ballasts

-Supplements

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American National Standard

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Foreword (This Foreword is not part of ANSI C82.11-1993.)

Suggestions for improvement of this standard should be submitted to the Secretariat C82, American National Standard Lighting Group of the National Electrical Manufacturers Association, 1300 North 17th Street, Suite 1847, Rosslyn, VA 22209.

This standard contains a collection of amendments which supersede the 1993 standard. Consisting of three supplements, noted below, which were approved by the ANSI ASC (Accredited Standards Committee) method of standard development. The 1993 standard remains unchanged except for some editorial changes and the inclusion of new supplemented information listed below:

Amendment/Change	Ballot	Report
New table of contents	N/a	N/a
ANSI C82.11a Removed table specifying starting aid distances (p 5.2.2)	m640	m641
ANSI C82.11b Program start systems (p 3.2.6) Line transient requirements (p5.10.1)	CDV/m653 LB/m636	RV/m654 R/m637
ANSI C82.11c-2000 Specifications for low voltage control interface, and marking nomenclature for controllable ballasts, (Annexes A and B)	LB/m646	R/m647

This standard was processed and approved by Accredited Standards Committee on Electric Lamps, C82, and its Sub-Committee, C82-1. Committee approval of the standard does not necessarily imply that all committee members voted for that approval. At the time it approved this standard, the C82 Committee had the following members:

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Howard Wolfman, Technical Coordinator
John Marshall, Technical Coordinator
Ken Denton, Consulting Editor
Randolph N. Roy, Secretariat

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

1 Scope

This standard is intended to cover high frequency ballasts which have rated open-circuit voltages of 2000 volts or less 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 41°C. At ambient temperatures outside this range, certain special operating characteristics may be required.

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. 70-1993, *National Electrical Code*

ANSI /IEEE C62.41-1980 (R1995), *Guide for Surge Voltages in Low-Voltage AC Power Circuits*

ANSI C78.1-1991 (R1996), C78.2-1991(R1996), C78.3-1991(R1996), C78.4-1992(R1997), *American National Standards for Dimensional and Electrical Characteristics of Fluorescent Lamps*

ANSI C82.2-1984 (R1992), *American National Standard Methods of Measurement of Fluorescent Lamp Ballasts*

ANSI C82.3-1983 (R1998), *American National Standard Specification for Fluorescent Lamp Reference Ballasts*

CAN/CSA C22.2 No.0.16 M92, *Measurements of Harmonic Currents, General Requirements, A National Standard of Canada*

IES LM40-1988, *Life Performance Testing of Fluorescent Lamps*

US Code of Federal Regulations #47, Chapter 18. (*Federal Communications Commission Requirements for RFI*)

Public Law 100-357, *National Appliance Energy Conservation Amendments of 1988*.

ANSI/UL 935-1992, *Underwriters Laboratories Inc., Standard for Fluorescent Lamp Ballasts*