



ANSI/NEMA C82.12-1999

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# American National Standard for Lamp Ballasts - Fluorescent Adapters



**National Electrical Manufacturers Association**  
**1300 North 17th Street, Suite 900 • Rosslyn, VA 22209**  
**[www.NEMA.org](http://www.NEMA.org)**



# AMERICAN NATIONAL STANDARD



**ANSI C82.12-1999**

**American National Standard**

**for Lamp Ballasts—  
Fluorescent Adapters**



**NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION**  
1300 NORTH 17TH STREET, SUITE 1847, ROSSLYN, VA 22209  
(703) 841-3200 FAX: (703) 841-3300

# American National Standard

Approved March 18, 1999

Secretariat: National Electrical Manufacturers Association

## For Lamp Ballasts— Fluorescent Adapters

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. It is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether he has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standards. Users are cautioned to obtain the latest editions.

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**Foreword** (This Foreword is not part of ANSI C82.12-1999.)

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

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:

**Norm Grimshaw, Chair C82**  
**Ken Denton, Technical Coordinator**  
**Randolph N. Roy, Secretariat**  
**Matt Clark, Coordinating Editor**

<i>Organization Represented:</i>	<i>Name of Representative:</i>
Advance Transformer Company	Norman Grimshaw
ENTERGY Services, Inc.	William "Al" Maguire
GE Lighting	Rolf Bergman
Indy Lighting, Inc. (Delegate)	Ted Yahraus
Intertek Testing Services	Craig Davenport
MagneTek	Michael A. Stein
OSRAM SYLVANIA	Peter Bleasby
	David Fox (Alt.)
Philips Lighting Company	Al Rousseau
Underwriters Laboratories, Inc.	John Marshall

At the time it approved this standard, the C82-1 Sub-Committee had the following members:

**Ken Denton, Chair, C82-1**  
**Randolph N. Roy, Secretariat**

<i>Organization Represented:</i>	<i>Name of Representative:</i>
Advance Transformer Company	Norman Grimshaw
	Beth Jug
	Arnold Stout
General Electric	Edward E. Hammer
MagneTek	Robert Burke
	Kenneth J. Denton
Motorola Lighting, Inc.	Howard Wolfman
OSRAM SYLVANIA INC.	Tom Gavenonis
	Warren Anderson
Philips Lighting Company	Frank M. Latassa
	Thomas O. Leyh
Thomas & Betts (American Electric)	Greg Steinman
Underwriters Laboratories, Inc.	John Marshall

## **For Lamp Ballasts**

### **1 Scope**

This standard is intended to cover fluorescent lamp adapters rated for 120 and 127 volt, 60 hertz input and for use with Edison-screw lampholders. This comprises adapters for hot-cathode fluorescent lamps, with either preheat (switch)-start, rapid-start (continuously heated cathodes), modified rapid start or programmed start. The adapter 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, the performance may vary outside the values given in this document and 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 (R1985), Guide for Surge Voltages in Low-Voltage AC Power Circuits

ANSI C78.1-1991 (R1996) C78.2-1991 (R1996), C78.3-1991 (R1996), C78.4-1995, American National Standards for Dimensional and Electrical Characteristics of Fluorescent Lamps

ANSI C82.2-1984 (R1995), American National Standard Methods of Measurement of Fluorescent Lamp Ballasts

ANSI C82.3-1983 (R1995), American National Standard Specification for Fluorescent Lamp Reference Ballasts

ANSI C82.11-1993 (R1998), American National Standard for Lamp Ballasts—High Frequency Fluorescent Lamp Ballasts

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

UL 1993, Underwriters Laboratories, Inc., Standard for Self-Ballasted Lamps and Lamp Adapters