



Standard for
Installing and Maintaining
Uninterruptible Power
Supplies (UPS)

NEIS



Published by
National Electrical
Contractors Association



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1. Scope

This standard describes installation and maintenance procedures for permanently installed, static, three-phase Uninterruptible Power Supplies (UPS) rated 30 kVA or more, and rated 600 Volts or less, and related battery systems installed indoors and outdoors for commercial, institutional and industrial applications. UPS described herein are solid state power systems which provide continuous regulated AC power at the output terminals, while operating from either an AC power source or from a battery system.

1.1 Products and Applications Included

Permanently-installed UPS rated 30 kVA or higher and 600 Volts or less, with related battery systems installed indoors or outdoors for commercial, institutional and industrial applications.

1.2 Products and Applications Excluded

1. Rotary UPS
2. Single-phase UPS
3. UPS rated less than 30 kVA
4. UPS rated greater than 600 Volts
5. Portable or temporary installations

1.3 Regulatory and Other Requirements

- a) All information in this publication is intended to conform to the National Electrical Code (ANSI/NFPA 70). Installers should always follow the NEC, applicable state and local codes, manufacturer's instructions, and contract documents when installing and maintaining uninterruptible power supplies.
- b) Only qualified persons familiar with the construction and operation of uninterruptible power supplies should perform the work described in this publication. It is recommended that all work be performed in accordance with NFPA 70E, *Standard for Electrical Safety in the Workplace*.
- c) General requirements for installing electrical products and systems are described in NECA 1, *Standard Practices for Good Workmanship in Electrical Contracting* (ANSI). Other *NEIS* provide additional guidance for installing particular types of electrical products and systems. A complete list of *NEIS* is provided in Annex C.