

ANSI/BHMA A156.33-2019



**STANDARD
for
INTERNALLY POWERED ARCHITECTURAL HARDWARE
DEVICES**



SPONSOR

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.

**AMERICAN NATIONAL STANDARDS INSTITUTE
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AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

AMERICAN NATIONAL STANDARD

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FOREWORD

The general classification of builders' hardware includes a wide variety of items which are divided into several categories. To recognize this diversity, a sectional classification system has been established.

The INTERNALLY POWERED ARCHITECTURAL HARDWARE DEVICES Standard is a result of the collective efforts of members of the Builders Hardware Manufacturers Association, Inc. who manufacture these products. The total Product Standards effort is, therefore, a collection of sections, each covering a specific category of items.

Performance tests and, where necessary, material and dimensional requirements have been established to insure safety and stability to which the public is entitled. There are no restrictions on design except for those dimensional requirements imposed for reasons given above.

This Standard is not intended to obstruct but rather to encourage the development of improved products, methods and materials. The BHMA recognizes that errors will be found, items will become obsolete, and new products, methods and materials will be developed. With this in mind, the Association plans to update, correct and revise this Standard on a regular basis.

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1. SCOPE

1.1 This Standard establishes methods for verifying manufacturer's claims for principle battery performance in different use models for various types of internally powered architectural hardware. This Standard applies to both commercial and residential products.

1.2 Examples of internally powered architectural devices include motorized deadbolts, hotel locks, input devices, self-contained RFID locks, push button locks, cabinet locks, e-cylinders, portable locks, electric strikes, exit devices, mortise locks, rim locks, bored locks, active RF key fobs, and safe locks.

1.3 This Standard applies specifically to battery performance claims and does not imply compliance to additional applicable ANSI/BHMA A156 Series Performance Standards.

1.4 Tests described in this Standard are performed under laboratory conditions. In actual usage, results vary because of installation, maintenance and environmental conditions.

1.5 **Battery Life Claim Qualifications.** It is optional for a manufacturer to communicate that a product is A156.33 certified. A manufacturer can communicate that a product is A156.33 certified without a specific claim. However, if a manufacturer chooses to communicate that the product is BHMA A156.33 certified with a specific claim, the manufacturer shall indicate the Communication, Credential, and Use Case as declared in the certification of their battery life claim in months.

2. DEFINITIONS

2.1 **Accessory Equipment** Pieces of equipment attached to or added to a product and are of such size that they are capable of being marked for identification by a catalog number or equivalent. Accessory equipment usually is dependent upon a basic part of a system for mechanical support, electrical input, or both; and may or may not, by itself, perform a complete function.

2.2 **Alarm** An electrically operated monitoring device indicating, either audibly or by other signal, unauthorized opening of a door. Can include ANSI BHMA A156.29 Exit Alarm type and alarm contacts.

2.3 **Annunciator** An electrically operated device that produces a signal in response to an event occurring in the immediate vicinity of a door. Optionally the device can provide a means of bi-directional communication. Can include Doorbells, Video Doorbells and Entry Alerts.

2.4 **Battery Pack** A set of any number of identical batteries or individual battery cells. They may be configured in a series, parallel or a mixture of both to deliver the desired voltage, capacity, or power density.

2.5 **Biometrics** A method to identify a user from within a population of possible users, according to a characteristic, or multiple characteristics which can be reliably associated with a particular individual, without an identity being explicitly claimed by the user.

2.6 **Credential Type "Other"** Various technologies as disclosed by manufacturer.

2.7 **Electrified Locking Device** An electrically powered device which enables a door to be locked or unlocked in response to an electric signal.

2.8 **End of Life** A point defined by the product manufacturer at which the typical battery pack voltage correlates with a state of charge at which point the Primary Function of the product ceases. A product in the End of Life state would not deliver the primary functionality until the battery is serviced.