# NAV-EM Series

*Vandal Resistant, Wet Location Emergency Unit*

The NAV-EM series vandal resistant emergency lighting unit is designed to stand up to high abuse areas such as correctional facilities, schools, apartment complexes, and public areas that may be subject to vandalism. The NAV-EM features an IEC IP66 rating standard and is suitable for wet or hose down applications.

Model: _____ Date: _____

Accessories: _____

Job Name: _____ Type: _____

## FEATURES

- IP66 rated for wet and hose down locations - NEMA 4X
- Heavy Duty 0.42" thick, cast aluminum housing
- Impact-resistant, polycarbonate shield offers extreme protection
- Fully-adjustable, high-intensity MR16 LED and halogen lamps in wattages ranging from 5-35 watts
- Back up available in 6 volt - 42 watts or 12 volt with either 42 or 90 watts
- Tamper-resistant hardware standard
- Ceiling, wall or end mount
- Nickel Cadium Battery
- 120/277V, 60Hz input
- Standard finishes: Black or White
- Assembled in U.S.A.

## WARRANTY

Any component that fails due to manufacturers defect is guaranteed for 3 years with a separate 3 year pro-rated warranty on the battery. The warranty does not cover physical damage, abuse or instances of uncontrollable natural forces. See the full Exitronix warranty document for detailed information.

## ORDERING INFORMATION **Example:** NAV-EM-6-42-10M-B

| Series | Voltage | Wattage | Lamp (x2) | Finish | Accessories[1] (Field Installed) |
|---|---|---|---|---|---|
| NAV-EM | 6 = 6 Volt | **6 Volt** | **6 Volt** | W = White | ER1-KIT = 1' Pendant Mount Kit |
| | 12[2] = 12 Volt | 42 = 42 Watts | 5M = 5 Watt | B = Black | ER2-KIT = 2' Pendant Mount Kit |
| | | **12 Volt** | 10M = 10 Watt | | |
| | | 42 = 42 Watts | LED = 5 Watt | | |
| | | 90 = 90 Watts | **12 Volt** | | |
| **Notes** | | | 10M = 10 Watt | | |
| [1] Order as separate line item | | | 20M = 20 Watt | | |
| [2]12V 90W configuration cannot be end mounted | | | 35M = 35 Watt | | |
| | | | LED = 5 Watt | | |

## CONSTRUCTION
The NAV series is constructed from .420” thick, heavy duty die-cast aluminum. Tamper resistant screws and external LED status indicator and infrared test switch are standard

## ILLUMINATION
Bottom mounted lamp assembly contains two fully adjustable, high-intensity MR16 halogen lamps in wattages ranging from 5-20 watts. Lamp assembly is enclosed in a vandal-resistant polycarbonate shield. The high abuse, clear polycarbonate lens provides protection of the lamps. Tamper resistant screws are standard for the lamp housing. The emergency light enclosure comes standard with a vacuum metalized reflector for an aesthetic look.

## ELECTRICAL
### Input
Dual-voltage input 120 or 277VAC @ 60Hz.

### Nickel Cadmium Battery – NiCad
Exitronix nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. Nickel cadmium batteries offer high discharge rates and continue to perform in a temperature range from 50°F to 113°F (10°C to 45°C). NiCad technology provides long lasting, safe and reliable performance by utilizing the jelly-roll design and allows a NiCad cell to deliver a much higher maximum current than an equivalent size alternative battery. As a relatively larger area of the electrode is in contact with the active material in each cell, the internal resistance for an equivalent sized NiCad cell is lower which increases the maximum current that can be delivered.

### Emergency
The NAV-EM series will operate for a minimum of 90 minutes during a loss of power with a 24 hour maximum recharge time for the battery.

### Brownout Circuit
Brownout circuit monitors the line voltage, as the line voltage sags and can no longer illuminate the exit sign to meet UL 924 visibility test, the emergency circuit will turn on to supply a portion or all the power to illuminate the sign for a minimum of 90mins until the line voltage is restored.

### Low Voltage Disconnect
When the battery’s terminal voltage falls below predetermined levels, the low-voltage circuit disconnects the emergency lighting load. The disconnect remains in effect until normal power is restored, preventing deep battery discharge and improving the life of the battery. The disconnect will also automatically reconnect the load circuit once the battery voltage returns to a normal value after charging.

### Solid-State Transfer
The unit features a solid-state switching transistor which eliminates damaged contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC power and automatically energizes the lamps. Upon restoration of the AC voltage, the emergency lamps will switch off and the charger will automatically recharge the battery.

### Overload and Short-Circuit Protection
The solid-state overload monitoring system in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made and automatically resets when the overload or short-circuit is removed. This overload current protective characteristic eliminates the need for fuses or circuit breakers for the DC load.

### Test Button
Our easily located test button allows for manual verification of proper operation of the transfer circuit and emergency lamps.

## INSTALLATION
The NAV Series is supplied with a universal mounting system and is suitable for surface ceiling, wall, and end mount applications. Suitable for indoor, outdoor, damp, or wet location applications.

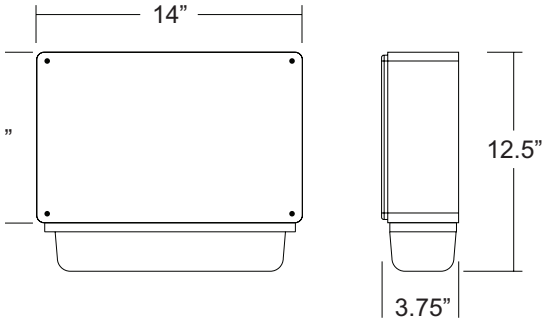
### NEMA 4X Rated (Standard)
NEMA 4X rated fixtures are designed for outdoor applications. NEMA 4X rating ensures that the fixtures will withstand contact with falling dirt, moderate or jet driven water, ice and corrosion. NEMA 4X fixtures are designed to perform in hose down applications.

### IP66 Rated (Standard)
IP66 rating ensures that the product can be installed in outdoor applications where significant water or dust may come in contact with the fixture. IP66 rated fixtures are fixtures designed to perform in hose down applications.

### Made in the USA (Option: USA)
Many of our products can be produced or transformed to comply with the American Recovery and Reinvestment Act of 2009 (ARRA) requirements and Buy American provisions. These fixtures meet LEVEL 2 or 3 compliance when option is requested – please call factory for details with questions.

## CONFORMANCE TO CODES & STANDARDS
The NAV-EM Series is CSA listed and meets or exceeds the following: UL 924, NEC requirements and NFPA 101.

## DIMENSIONS




Specifications are subject to change without notice.
Installation must be performed in accordance with
Barron Lighting Group installation instructions.

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BARRON lighting group
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