

**mcPhilben Emergency Unit**

**HE Series**  
Hazardous Location: Class I, Div. II  
Emergency Unit



**Specifier's Reference**

Project
Type
Model No.
Comments

**application**

- The mcPhilben HE series is a hazardous location unit approved for Class I and II, Division II, groups A, B, C, D areas.

**codes and standards**

- UL 924 listed
- UL 844 listed
- NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
- Temperature Rating (T-Rating) 160° (T3C)
- Class I, Division 2, Groups A, B, C & D
- Class I, Zone 2 T-Rating 200 (T3), Groups IIA, IIB (+H<sub>2</sub>) & IIC
- Class II, Division 2 Areas, Groups F & G

**voltage input**

- 120/277 VAC selectable input.

**battery**

- Maintenance free, sealed lead calcium battery has an estimated service life of 5 years, and an operating temperature range of 65° F(19° C) to 85° F(30° C). Maintenance free, sealed nickel cadmium battery has an estimated service life of 10 years, and an operating temperature range of 65° F(19° C) to 85° F(30° C). Batteries supply 90 minutes of emergency power.

**housing**

- Constructed of corrosion-resistant materials featuring fiberglass-reinforced industrial gray housing with stainless steel hardware. View-through window allows easy monitoring of AC indicator and optional voltmeter and ammeter.

**advanced self-diagnostics (standard)**

- The Advanced Self-Diagnostics charging system is microprocessor controlled with surge protection, brownout, AC lockout and low voltage disconnect features are standard on all models.

**self-testing diagnostics (optional)**

- Optional diagnostics/charging circuitry perform a self-test monthly, and during the sixth and twelfth months. A one-minute or 90 minute test may be initiated via pushing the test button or using the handheld test device, SRT.

**lamp data**

- Additional tungsten or halogen sealed beam Par Illumination is accomplished with lamp heads mounted on the top of the unit. The Class I, Division 2 rated lamp head is available in a variety of wattages, and is constructed of gray polycarbonate to match the HE Series housing. Optional shatter-resistant lamp heads are offered.

**mounting**

- Internal mounting capability provides vandal-resistant security. External mounting feet included.

**warranty**

- Five year warranty on unit. (Lamps not included).

**Green Product Choice: HE6LD25PHA**

Family	Operation	Options <sup>1</sup>
<b>HE6LD</b> – 6 volt, Lead Calcium <b>HE6ND</b> – 6 volt, Nicad <b>HE12LD</b> – 12 volt, Lead Calcium <b>HE12ND</b> – 12 volt, Nicad	<b>HE6LD</b> 25 – 25Watt 50 – 50Watt  <b>HE6ND</b> 25 – 25Watt 50 – 50Watt 75 – 75Watt	<b>T</b> – Self-Testing Diagnostics <b>TA</b> – Audible Self-Testing Diagnostic <b>V</b> – Voltmeter <b>A</b> – Ammeter <b>TD</b> – Time Delay (15min) <b>EX</b> – Special input transformer (specify voltage & frequency) <b>S</b> – Shatter-Resistant Lamp Heads
	<b>HE12LD</b> 25 – 25Watt 50 – 50Watt 100 – 100Watt 125 – 125Watt  <b>HE12ND</b> 25 – 25Watt 50 – 50Watt 75 – 75Watt 100 – 100Watt 125 – 125Watt 150 – 150Watt	
	<b>Two Lamp Heads</b> <b>BLANK</b> – No heads <b>6 volt Sealed Beam</b> <b>PHA</b> – 8Watts, Tungsten <b>PHB</b> – 18Watts, Tungsten <b>PHC</b> – 25Watts, Tungsten <b>PHI</b> – 8Watts, Halogen <b>PHJ</b> – 12Watts, Halogen  <b>12 volt Sealed Beam</b> <b>PHE</b> – 12Watts, Tungsten <b>PHF</b> – 18Watts, Tungsten <b>PHG</b> – 25Watts, Tungsten <b>PHK</b> – 8Watts, Halogen <b>PHL</b> – 12Watts, Halogen  (Suggested lamp heads are listed above. For other heads refer to spec sheet ERA6021)	

**Accessories**

- SRT** – Infra-Red remote tester
- WG** – Wire Guard (units with lamp heads)
- WG5** – Wire Guard (units without lamp heads)

**Footnotes**

<sup>1</sup>Some option combinations may impact UL listing. Consult factory for specifics.

# HE Series Hazardous Location: Class I, Division 2 Emergency Lighting Units

## Electrical Specifications

### 6 VDC 25 & 50 W Lead Calcium

120 VAC, 60 Hz, 0.18 A; 277 VAC, 60 Hz, 0.08 A

### 12 VDC 25, 50, 100 & 125 W Lead Calcium

120 VAC, 60 Hz, 0.40 A; 277 VAC, 60 Hz, 0.18 A

### 6 & 12 VDC 25 W NiCad

120 VAC, 60 Hz, 0.088 A; 277 VAC, 60 Hz, 0.042 A

### 6 VDC 50 & 75 W NiCad, 12 VDC 50 W NiCad

120 VAC, 60 Hz, 0.19 A; 277 VAC, 60 Hz, 0.084 A

### 12 VDC 75 & 100 W NiCad

120 VAC, 60 Hz, 0.29 A; 277 VAC, 60 Hz, 0.14 A

### 12 VDC 125 & 150 W NiCad

120 VAC, 60 Hz, 0.39 A; 277 VAC, 60 Hz, 0.18 A

## Audible/Non-Audible Diagnostics

Advanced Self-diagnostics is equipped with an audible user interface confirmation standard.

However, the audible diagnostics feature is a selectable option. Standard diagnostics equipment offers visual verification of the equipment readiness through the flashing sequence of the RED LED in the following manner:

Fault condition status, number of RED flashes:

- 1 X - Battery Fault
- 2 X - Lamp Failure
- 3 X - Charger Fault
- 4 X - Transfer Fault

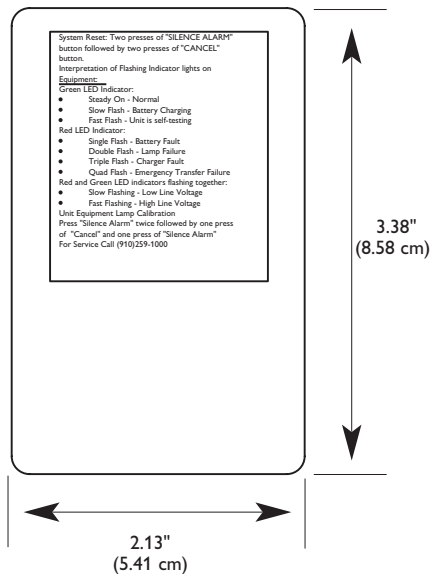
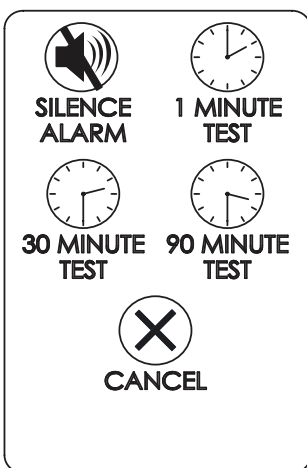
Both RED and GREEN LED's fast toggle - AC line over-voltage

Both RED and GREEN LED's slow toggle - AC line under-voltage

## Dimensions

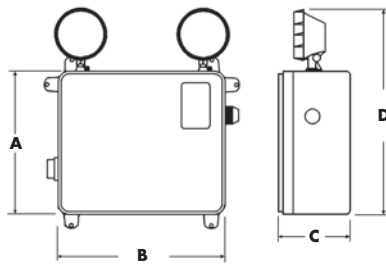
Front

Back



**OPERATING TEMPERATURE –**  
 Standard Location: 65°F (18°C) to 85°F (29°C)  
 Damp Location: 32°F (0°C) to 104°F (40°C)

## Dimensions

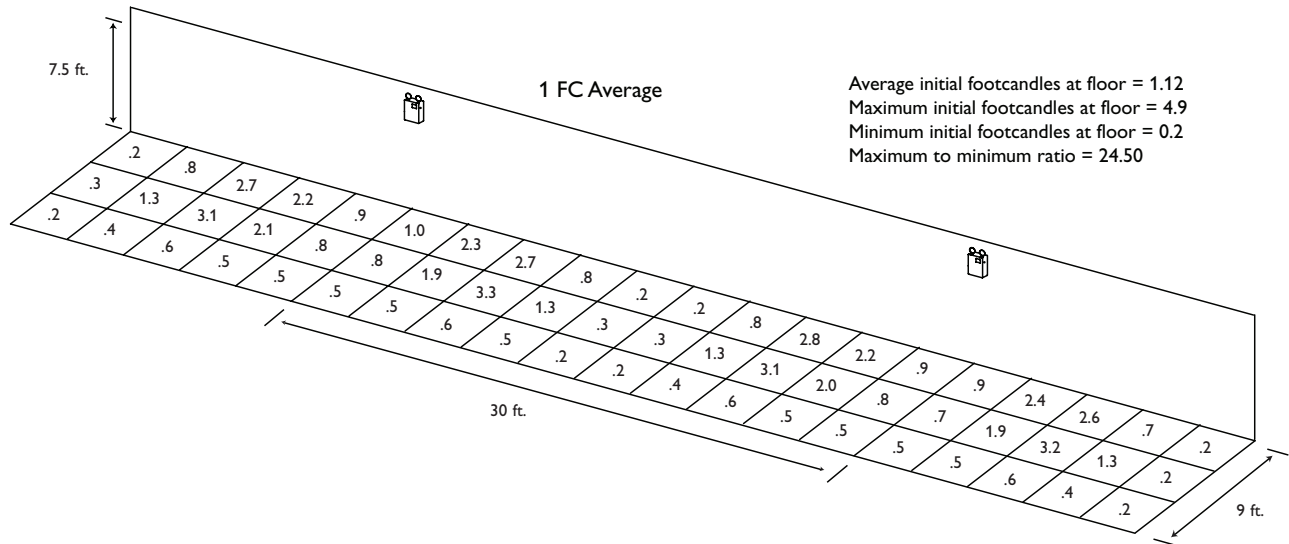


25 WATT TO 75 WATT	100 WATT TO 125 WATT
A: 13.2" (335.3 mm)	A: 15.2" (386.1 mm)
B: 11.2" (284.5 mm)	B: 13.2" (335.3 mm)
C: 6.5" (165.1 mm)	C: 7.3" (185.4 mm)
D: 19.4" (492.8 mm)	D: 21.4" (543.6 mm)

## Additional Features

- Housing** – Housing is suitable for use in NEMA 3, 4x and 12 areas, and in Class I, Division 2, Groups A,B,C & D, Zone 2, Groups IIA, IIB & H2 & IIC areas.
- Battery** – Maintenance-free, sealed lead calcium battery has an estimated service life of 5 years, and an operating temperature range of 65°F (19°C) to 85°F (30°C). Maintenance-free, sealed nickel cadmium battery has an estimated service life of 10 years, and an operating temperature range of 65°F (19°C) to 85°F (30°C).
- Warranty** – Five year warranty on units. (Lamps not included)
- Electronics** – The Advanced Self-diagnostic charging system is microprocessor controlled with surge protection, brownout, AC lockout and low voltage disconnect features and is standard on all models.
- Self Testing Diagnostics** – Optional diagnostic/charging circuitry performs a self-test monthly, and during the sixth and twelfth months. A one-minute or 90-minute test may be initiated via pushing the test button or using the handheld test device, SRT.

Optics\* (IES formatted files are available on-line)  
 Wall mounted 7.5' AFF, 12V 12W Halogen Lamp Heads Represented (PHL)






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Contact Factory for Additional Configurations.  
Specifications are subject to change without notice.  
Consult website for latest version of this spec sheet.

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)