mcPhilben®
emergency lighting

Job Name: _____

Type: _____

Voltage: _____

CODES AND STANDARDS
Suitable for use in Class I, Division 2, Groups A, B, C, D. UL Listed to Standard 924, select units UL Listed to Standards 844, 1206, 1604.
NFPA101, NEC, BOCA and OSHA

CODES AND STANDARDS
120/277 VAC selectable input.

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

BATTERY
Maintenance-free, sealed lead calcium, nickel cadmium and pure lead batteries available. Lead calcium and pure lead batteries feature voltage regulated, current limited solid-state charger. Nickel cadmium batteries use constant current, solid-state charger.

HOUSING
Constructed of corrosion-resistant materials featuring fiberglass reinforced industrial grey housing with stainless steel hardware. Molded, one-piece, non-removable gasket.

WINDOW
View-through window for ammeter and voltmeter options.

LAMP DATA
Tungsten or halogen sealed beam Par 36 heads are available. Optional shatter-resistant lamp heads are also offered.

SELF-DIAGNOSTIC
Self-Diagnostic option includes automatic and manual tests to ensure unit is operating properly. (See specification sheet for details)

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

CATALOG NUMBER (Example: HE6L25 PHA)

FAMILY

HE6L – 6 volt, Lead Calcium
HE6N – 6 volt, Nicad
HE6P – 6 volt, Pure Lead
HE12L – 12 volt, Lead Calcium
HE12N – 12 volt, Nicad
HE12P – 12 volt, Pure Lead

OPERATION

HE6L
25 – 25watt[3]
50 – 50watt[3]
100 – 100watt[2]
125 – 125watt[2]
HE6L
25 – 25watt[3,4]
50 – 50watt[3,4]
HE6L
60 – 60watt

HE12L
25 – 25watt[3]
50 – 50watt[3]
HE12N
25 – 25watt[3,4]
50 – 50watt[3,4]
75 – 75watt[3,4]
100 – 100watt[3,4]
125 – 125watt[3,4]
HE12P
120 – 120watt[2]

LAMP HEADS

BLANK – No heads
6 volt Tungsten
PHA – 8watts
PHB – 18watts
PHC – 25watts
PHD – 30watts
6 volt Halogen
PHI – 8watts
PHJ – 12watts
12 volt Tungsten
PHE – 12watts
PHF – 18watts
PHG – 25watts
PHH – 30watts
12 volt Halogen
PHK – 8watts
PHL – 12watts

OPTIONS[1]

SD – Self-Diagnostic
SDA – Self-Diagnostic With Audible Alarm
V – Voltmeter (not available with SD or SDA)
A – Ammeter (not available with SD or SDA)
TD1 – 120 VAC Time Delay (15 min)
TD2 – 277 VAC Time Delay (15 min)
EX – Special Input Transformer††
S – Shatter-Resistant

††Specify voltage & frequency

Footnotes:

[1] Some options combinations may impact UL listing. Consult factory for specifics.
[2] Not available with SD & SDA options.
[3] In addition to UL 924, these units are listed to 844 and 1604.
[4] Additional listing Class II, Division II groups. F&G

Accessories (Ordered Separately):

Wire Guards – refer to Spec Sheet ERA6050.4.

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HE SERIES Hazardous Location: Class I, Div. II

HAZARDOUS AREA UNITS
HE Series hazardous area emergency units are UL listed for use in Class I, Division 2, Groups A, B, C & D. These areas are defined as those subject to the presence of explosive material only in the event of abnormal fault conditions.

PROTECTIVE FEATURES
Cabinets
HE Series units utilize the Stahlin® compression molded enclosure. The cabinet is constructed of special fiberglass reinforced polyester resins that are chemically resistant to a wide range of corrosive materials. The cabinet features a one piece, molded, nonremovable, urethane, formed-in-place gasket. All units are supplied with one factory installed 3/4" rigid metal conduit hub, which permits on-site installation of electrical service.

Venting
Battery gasses, which normally evolve during recharge are permitted to escape the enclosure by means of a non-mechanical breather device.

Solid State Transfer
In the event of a power failure, solid state switching activates the emergency lights. This eliminates the potential for internal electrical arcing.

MAINTENANCE-FREE BATTERY SELECTION
Sealed Lead Calcium Recombination Battery (6v 50w, 100w, 125w; 12v 25w, 50w)
This battery type operates on the principle of electrolyte recombination. Gasses which normally form during the recharge operation are captured and recombined to form water. The amount of electrolyte remains constant during the battery's life. The sealed construction eliminates acid spills, electrolyte refills and cell dryout.

Nickel Cadmium (6v 25w, 50w, 70w, 90w; 12v 25w, 50w, 100w, 125w)
Sealed, maintenance-free nickel cadmium batteries with high temperature sintered plate construction and polypropylene separators provide trouble free operation in ambient temperatures not exceeding 131°F (55°C).

Pure Lead (6v 60w; 12v 120w)
This completely sealed, rechargeable, maintenance-free battery consists of pure lead plates coiled around electrolyte saturated separators encased in cylindrical steel jackets. The use of unalloyed lead wound in this manner permits operation in high ambient temperatures without seriously reducing battery life.

Battery Chargers
Recharging to rated capacity is accomplished in accordance with UL 924. Lead calcium battery units are equipped with a fully automatic, voltage regulated, current limited, solid state charger. Initially the charger provides a high charge rate upon restoration of AC power. When proper float voltage is attained, the charger provides a trickle charge to maintain batteries at full capacity. Nickel cadmium battery units utilize a constant current, solid state charging circuit.

T.C. Charger
This charger is used with select lead calcium, and nickel cadmium battery units to assure proper charging in variable ambient temperatures. As ambient temperature increases or decreases, the charger will compensate and provide correct float voltage, preventing improper charging.

Options
Steel Lite Class I, Division 2 units incorporate a flush, view-through window for inspecting the voltmeter and ammeter. A 15 minute time delay feature is also available.

Lamp Heads
HE Series units are equipped with sealed beam lamps available in tungsten or tungsten halogen styles. The specifier is able to select from 8–30 watts of light output. Lamps are housed in a corrosion and impact resistant Lexan® 500 polycarbonate housing.

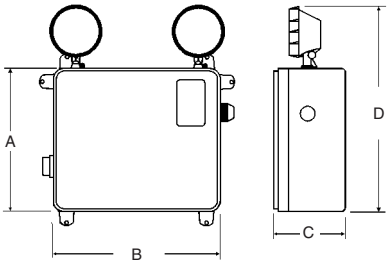
Available Wattages/Battery		25	50	60	70	90	100	120	125
6 volt	Lead	•	•				•1		•1
	NiCd	•	•		•	•			
	Pure Lead			•1					
12 volt	Lead	•	•						
	NiCd	•	•				•		•
	Pure Lead							•1	

1=Generally meets the requirements for Class 1, Division 2

Lamp Head Selector		8w	12w	18w	25w	30w
6 volt	Tungsten	PHA		PHB	PHC	PHD
	Halogen	PHI	PHJ			
12 volt	Tungsten		PHE	PHF	PHG	PHH
	Halogen	PHK	PHL			

*Stahlin is a registered trademark of the Robroy Corp.

DIMENSIONS



25 WATT TO 75 WATT
A: 13.2" (33.6 cm)
B: 11.2" (28.5 cm)
C: 6.5" (16.5 cm)
D: 19.4" (49.4 cm)

100 WATT TO 125 WATT
A: 15.2" (38.6 cm)
B: 13.2" (33.6 cm)
C: 7.3" (18.7 cm)
D: 21.4" (54.4 cm)

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