TYPE: _____

CATALOG #: _____

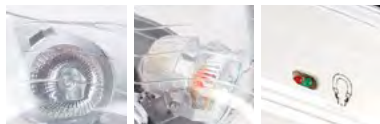NOTES: _____

(UL) (NSF) **nexus**® **NEMA-4X** **AD** ADVANCED DIAGNOSTICS

Survive-All™ SV Series
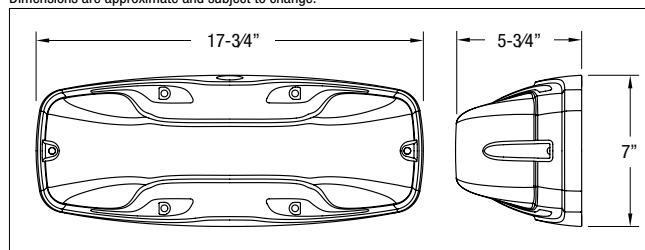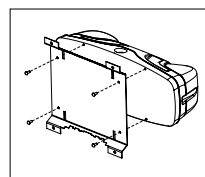## NEMA-4X, NSF, Vandal-Resistant Housing
Battery Unit

Features

- Equipped with a tool-less MR16 swivel lamp assembly to provide precise beam control. Choice of MR16 LED or halogen lamps of 6V and 12V
- Fully gasketed cast aluminum back plate with clear, UV resistant polycarbonate cover. Tamper-proof screws and bit are included. Available in black, white or gray
- Standard temperature 50°F to 104°F (10°C to 40°C).
- Available with sealed, maintenance-free Nickel-Cadmium (UL Listed for damp and wet locations), or Lead-Calcium batteries
- Standard 120/277VAC 0.3/0.15A input. Non-audible advanced diagnostic charger board, 15 minute Time Delay and lamp disconnect. Audible warning and Time Delay functions can be enabled or disabled during installation. Non-obtrusive, magnetic test switch. Micro-controller diagnostic system tests, detects and indicates battery, charger circuitry or MR16 lamp failures.
- Wall, strut or beam mounting
- UL Listed. Certified to meet UL924 standards, 90 minutes of emergency operation, NEMA-4X rated for high abuse areas, wet locations and cold weather (-40°F/-40°C) applications, NSF Certified for use in food processing plants
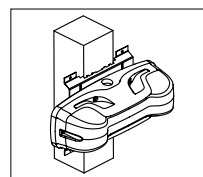- 3-year full warranty, excluding lamps and fuses

Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Additional special bit for tamper-proof screws	690.0454-E
Universal bracket (for mounting on poles, I-beams or strut metal framing)	PMK-E

Applications

- Hosedown areas / car washes
- Food processing / preparation facilities
- Marine locations
- Chemical plants
- Schools and other public facilities
- Parking garages
- Food processing / preparation facilities
- Transit platforms
- Sports arenas / swimming pools
- Security areas / prisons
- Warehouse and cold storage facilities
- Heavy industrial facilities

Note: Units installed outdoors must be in a shaded area (Lead-Calcium batteries)

Dimensions
Dimensions are approximate and subject to change.

17-3/4"   5-3/4"   7"

Universal Bracket

PMK KIT (screws included)   BEAM MOUNTING   STRUT MOUNTING

Unit Rating

UNIT EQUIPMENT - WITH REMOTE CAPABILITY				
Sealed Maintenance-Free Battery Types	Watts to 87-1/2% of rated battery voltage*			
	1-1/2 hrs	2 hrs	3 hrs	4 hrs
Lead-Calcium	18	12	8	–
	24	16	12	8
	36	24	20	14
	54	36	27	20
Nickel-Cadmium	24	18	12	8
	40	27	20	14
Nickel-Metal Hydride	60	40	30	20

* National Electrical Code Specification.

How to Order

COLOR	SERIES	# OF LAMPS	LAMPS	DIAGNOSTICS	OPTIONS
B= Black **G**= Gray **W**= White	**SV18M**= 6V-18W Lead-Calcium **12SV24M**= 12V-24W Lead-Calcium **12SV36M**= 12V-36W Lead-Calcium **12SV54M**= 12V-54W Lead-Calcium **12SV24N**= 12V-24W Nickel-Cadmium* **12SV40N**= 12V-40W Nickel-Cadmium* **12SV60H**= 12V-60W NiMH*	**-2**= 2 Lamps	**LA**= 6V-4W, MR16 LED **LG**= 12V-4W, MR16 LED **LI**= 12V-5W, MR16 LED **LJ**= 12V-6W, MR16 LED **MI**= 6V-6W, MR16 **MK**= 12V-12W, MR16 **MW**= 12V-20W, MR16-IR	**-DA**= Advanced Diagnostics (audible)* **-D**= Advanced Diagnostics (non-audible)* **-NEX**= NEXUS® wired (consult your sales representative) **-NEXRF**= NEXUS® wireless (consult your sales representative)	**Blank**= No options **CW4**= Cold weather -40°F to 104°F (-40°C to +40°C)*
	*= Suitable for Damp-Locations 50°F to 104°F (10°C to 40°C)			* Minimum lamp load: 20% of unit capacity	* Only available with 12SV24M & 12SV36M Not available with NEX and NEXRF option

Example: **B12SV36M-2LG-DCW4**

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EMERGI-LITE®

TYPE: _____

CATALOG #: _____

NOTES: _____

UL · NSF · nexus® · NEMA-4X · ADVANCED AD DIAGNOSTICS

Survive-All™ SVX Series
NEMA-4X, Vandal Resistant and Harsh Environment Combination Unit

Features

- Each unit comes with two (2) MR16 high intensity lamps (standard). Fully field-adjustable lamp head assembly offers the option of selecting either a halogen lamp or a high efficiency white LED light source for optimum illumination over the path of egress. Exit light source LED
- Rugged PVC body will not dent, peel or corrode. The sealed faceplate is constructed with a heavy duty, vandal-resistant polycarbonate cover and fastened with stainless steel tamper-resistant screws
- Available with sealed, maintenance-free Nickel-Cadmium batteries
- This circuitry is programmed to ensure the exit combination unit's readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single "Service Required" indicator illuminates immediately. A detailed diagnostic display that will further indicate the nature of the fault is located on the inside of the exit sign, out of sight from the general public. The self test will check the unit for a minimum of 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually. PulsePlus Charger circuitry offers 120/277 volt input 60 Hz, 0.3/0.15 Amps (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensated charger, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect). Magnetically operated test switch
- Can be wall, end or ceiling mounted
- NEMA 4X* Rated. UL Listed. Listed for wet and Damp Locations 50°F to 104°F (+10°C/+40°C)
- 5-year full warranty, excluding lamps and fuses

* Nema-4X Certified for wall or ceiling mounting only

Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Additional special bit for tamper-proof screws	690.0454-E
Additional test magnet	199.0133-E

Applications

- Hosedown areas / car washes
- Food processing / preparation facilities
- Marine locations
- Chemical plants
- Schools and other public facilities
- Parking garages
- Transit platforms
- Sports arenas / swimming pools
- Security areas / prisons
- Warehouse and cold storage facilities
- Heavy industrial facilities

Note: Units installed outdoors must be in a shaded area (Lead-Calcium batteries)
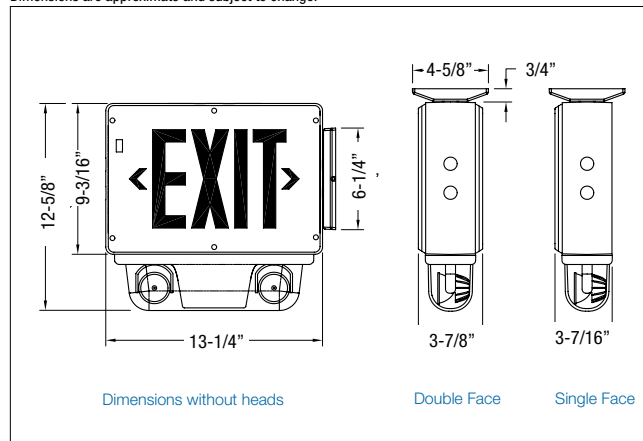
Dimensions
Dimensions are approximate and subject to change.

4-5/8"   3/4"
12-5/8"   9-3/16"   6-1/4"
13-1/4"   3-7/8"   3-7/16"

Dimensions without heads   Double Face   Single Face

Unit Rating

Sealed Maintenance-Free Battery Types	Watts to 87-1/2% of rated battery voltage*			
	1-1/2 hrs	2 hrs	3 hrs	4 hrs
Nickel-Cadmium	12	9	–	–
	24	18	12	9

* National Electrical Code Specification.

Power Consumption

Model	AC Specs		DC Specs (90 minutes)	
SVX12N	120/277VAC	0.12/0.06A 13W	6V	12W
SVX24N	120/277VAC	0.17/0.08A 19W	12V	24W

How to Order

HOUSING/FACE COLOR	SERIES/ CAPACITY	FACES	LEGEND COLOR	DIAGNOSTICS	HOUSING	# OF HEADS	LAMP TYPE/ WATTAGE	OPTIONS
WW= White/white **WB**= White/black **WA**= White/ aluminum **BB**= Black/black **BW**= Black/white **BA**= Black/ aluminum **GA**= Gray/ aluminum **GW**= Gray/white **GB**= Gray/black	**SVX12N**= 6V-12W **SVX24N**= 12V-24W	**1**= Single face **2**= Doubleface	**R**= Red legend **G**= Green legend	**DA**= Advanced Diagnostics (audible) **D**= Advanced Diagnostics (non-audible) **NEX**= NEXUS® wired * **NEXRF**= NEXUS® wireless* * Consult your sales representative	**4X**= Wet/ Damp Locations	**Blank**= 0 heads* **2**= Two heads * A remote load must be connected	**LA**= 6V-4W, MR16 LED **LG**= 12V-4W, MR16 LED **LI**= 12V-5W, MR16 LED **LJ**= 12V-6W, MR16 LED **MI**= 6V-6W, MR16 **MK**= 12V-12W, MR16	**Blank**= No options **CW4**= Cold weather (-40°F/-40°C)* **FA**= Flasher (fire alarm activated) **F/B**= Flasher/buzzer (AC power failure) **FL**= Flasher (AC power failure) **-208V**= 208VAC, 60Hz input **-240V**= 240VAC, 60Hz input **-208V50HZ**= 208VAC, 50Hz input **-CM**= Canopy pendant mount * Single face only

Example: **WWSVX12N1RD4X2LGCW4**

TYPE: _____

CATALOG #: _____

NOTES: _____

AD ADVANCED DIAGNOSTICS   NEMA-4X   **nexus**®   NSF   UL

Survive-All™ SVX Exit Series
NEMA-4X Rated and UL Listed for Wet and Damp Locations

Features

Reliability

The Survive-All™ SVX Series has a 5-year full warranty.

Unit Data - NEMA-4X* Rated

Rugged polyvinyl chloride body will not dent, peel, rust or corrode. The sealed faceplate is constructed of heavy duty, vandal-resistant polycarbonate and features an evenly illuminated legend. The fully gasketed faceplate is fastened with stainless steel tamper-resistant screws. Magnetically operated test switch. Models can be wall, end or ceiling mounted. Legend and chevron complies with UL and CSA requirements.

Survive-All™ SVX Series signs are unaffected by the vibrations, ambient temperature swings and typical power surges detrimental to standard exit light sources.

NEMA 4X* Rated. UL Listed. Listed for wet and Damp Locations 50°F to 104°F (+10°C/+40°C)
* Nema-4X Certified for wall or ceiling mounting only

Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Tamper-proof bit	690.0454-E
Convert single to double face, red	DFKR*
Convert single face to double face, green	DFKG*

* Colors available AL-BK-WT

Applications

- Hosedown areas / car washes
- Food processing / preparation facilities
- Marine locations
- Chemical plants
- Schools and other public facilities
- Parking garages
- Food processing / preparation facilities
- Transit platforms
- Sports arenas / swimming pools
- Security areas / prisons
- Warehouse and cold storage facilities
- Heavy industrial facilities

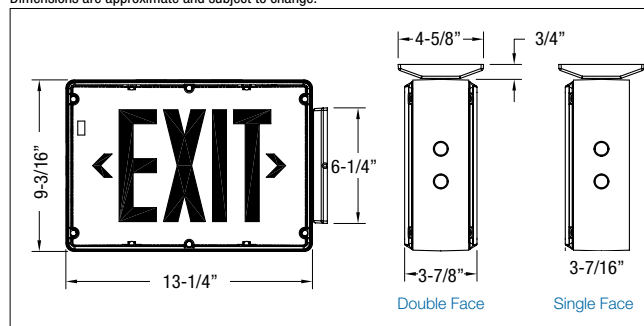Note: Units installed outdoors must be in a shaded area (Lead-Calcium batteries)

Dimensions
Dimensions are approximate and subject to change.

Double Face   Single Face

High Performance Circuitry

- Self Contained – Batteries and circuitry located inside the exit housing.
- Continuous self-diagnostic monitoring and monthly self testing.
- Fully automatic charger is solid state.
- AC, AC/DC and Self-Powered Models have universal, 2-wire input 120V to 277VAC 50/60 Hz.
- Sealed, maintenance-free Nickel-Cadmium battery provides 90 minutes of emergency operation.
- Battery recharges per UL924 requirements.
- Each unit comes standard with one tamper-proof driver bit.

Power Consumption (LED Exit Signs)

Model	AC Specs		DC Specs	
AC-only	120 to 277VAC	1.2W	–	–
AC/DC	120 to 277VAC	1.2W	6 to 24VDC	Less than 1.5W
Self-Powered	120 to 277VAC	3.7W	Nickel-Cadmium	Min. 90 minutes

How to Order

HOUSING COLOR	SERIES	FACE	LEGEND	DIAGNOSTIC	HOUSING	OPTIONS
BB= Black/black **BW**= Black/white **BA**= Black/aluminum **GB**= Gray/black **GW**= Gray/white **GA**= Gray/aluminum **WB**= White/black **WW**= White/white **WA**= White/aluminum	**SVX**= AC only **SVXN**= Self-Powered Ni-Cd	**1**= Single **2**= Double	**R**= Red **G**= Green	**Blank**= Standard **D**= Diagnostic (Self-Powered only) **NEX**= NEXUS® wired (consult your sales representative) **NEXRF**= NEXUS® wireless (consult your sales representative)	**4X**= Wet/Damp Locations*	**Blank**= No options **2CKT**= Dual circuit (AC only)* **CW**= Cold weather (Self-Powered -4°F to 77°F / -20°C to 25°C – AC/DC -40°F to 77°F / -40°C to 25°C) **DC**= 6 to 48 VDC** **FA**= Fire alarm activated flasher* **FL**= Flasher only* **FZ**= Flasher/buzzer (Self-Powered only)*
					* NEMA 4X rated for wall or ceiling mount only	*Not available with Nexus® option **Not available with Self-Power

Example: **BBSVXN1RD4X-FA**

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EMERGI-LITE®

NEMA-4X

Survive-All™
EF39 & EF40 Series

EF39: NEMA-4X & NSF Certified

EF40: Vandal Resistant

Features

- Fully gasketed with a selection of cast aluminum or polycarbonate back plate
- Clear polycarbonate UV and impact resistant-lens
- Choice of single or double lamp models
- Available in 6, 12 and 24V models MR16 or LED
- Easy lamp replacement
- EF39 comes standard with tamper-proof screws and bit
- NSF Certified for food processing plants
- NEMA-4X Certified
- EF39P and EF40P require mounting plate option when installed on surface mount junction box
- CSA Certified to C22.2 No. 141
- Suitable for indoor/outdoor installation
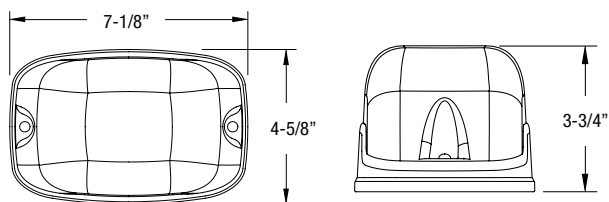
Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Additional special bit for tamper-proof screws	690.0454-E

Dimensions

Dimensions are approximate and subject to change.

7-1/8"

4-5/8"

3-3/4"

How to Order EF39 Series

SERIES	LAMP TYPE/WATTAGE		LAMP TYPE	OPTION
EF39P= All polycarbonate single head NEMA-4X **EF39PD**= All polycarbonate double head NEMA-4X	**(MI)**= 6V-6W, MR16 **(MJ)**= 6V-10W, MR16 **(MK)**= 12V-12W, MR16 **(MS)**= 24V-12W, MR16	**(LA)**= 6V-4W, MR16 LED **(LG)**= 12V-4W, MR16 LED **(LI)**= 12V-5W, MR16 LED **(LL)**= 24V-4W, MR16 LED **(LJ)**= 12V-6W, MR16 LED	**Blank**= White **-BK**= Black **-GY**= Gray	**SM**= Mounting plate

Example: **EF39P(LG)-BK**

SERIES	LAMP TYPE/WATTAGE		LAMP TYPE
EF39= Die-Cast back plate single head NEMA-4X **EF39D**= Die-Cast back plate double head NEMA-4X	**(MI)**= 6V-6W, MR16 **(MJ)**= 6V-10W, MR16 **(MK)**= 12V-12W, MR16 **(MS)**= 24V-12W , MR16 **(MD)**= 24V-20W, MR16 **(MW)**= 12V-20W, MR16-IR	**(LA)**= 6V-4W, MR16 LED **(LG)**= 12V-4W, MR16 LED **(LI)**= 12V-5W, MR16 LED **(LL)**= 24V-4W, MR16 LED **(LJ)**= 12V-6W, MR16 LED	**Blank**= White **-BK**= Black **-GY**= Gray

Example: **EF39(LG)-BK**

How to Order EF40 Series

SERIES	LAMP TYPE/WATTAGE		LAMP TYPE	OPTIONS
EF40P= All polycarbonate single head for dry location **EF40PD**= All polycarbonate double head for dry location	**(MI)**= 6V-6W, MR16 **(MJ)**= 6V-10W, MR16 **(MK)**= 12V-12W, MR16 **(MS)**= 24V-12W, MR16	**(LA)**= 6V-4W, MR16 LED **(LG)**= 12V-4W, MR16 LED **(LI)**= 12V-5W, MR16 LED **(LL)**= 24V-4W, MR16 LED **(LJ)**= 12V-6W, MR16 LED	**Blank**= White **-BK**= Black **-GY**= Gray	**Blank**= No options **T**= Tamper proof screws **SM**= Mounting plate

Example: **EF40P(MK)**

SERIES	LAMP TYPE/WATTAGE		LAMP TYPE	OPTIONS
EF40= Die-Cast back plate single head for dry location **EF40D**= Die-Cast back plate double head for dry location	**(MI)**= 6V-6W, MR16 **(MJ)**= 6V-10W, MR16 **(MK)**= 12V-12W, MR16 **(MS)**= 24V-12W , MR16 **(MD)**= 24V-20W, MR16 **(MW)**= 12V-20W, MR16-IR	**(LA)**= 6V-4W, MR16 LED **(LG)**= 12V-4W, MR16 LED **(LI)**= 12V-5W, MR16 LED **(LL)**= 24V-4W, MR16 LED **(LJ)**= 12V-6W, MR16 LED	**Blank**= White **-BK**= Black **-GY**= Gray	**Blank**= No options **T**= Tamper proof screws

Example: **EF40D(MD)**

EMERGI-LITE®

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TYPE: _____

CATALOG #: _____

NOTES: _____

HZM Series
6 and 12 Volt, Class I Division 2, Group A, B, C & D
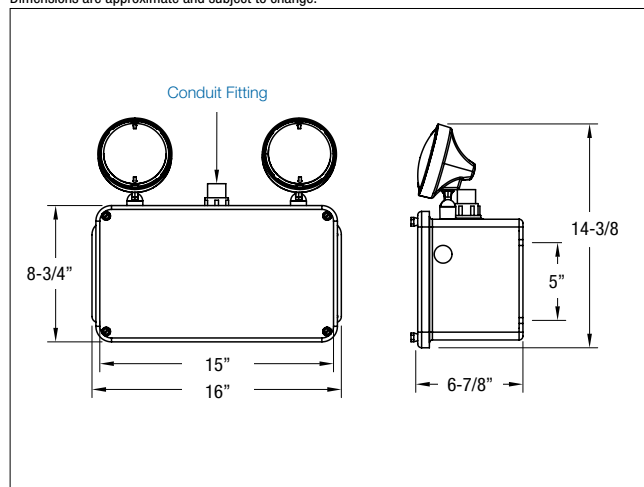
Features

- Each unit comes with two (2) weather-resistant, impact-resistant, flame-retardant thermoplastic EF-11 lamp heads with 12 watt high intensity sealed beam tungsten halogen lamps (standard)
- Temperature code: T4A (max. 248ºF/120ºC)
- Water and corrosion-resistant cabinet is made of fiberglass-reinforced polyester. Industrial gray cabinet is fully gasketed around the cover. Battery compartment is vented with a breather vent designed to permit exhaust of battery gases without admitting external moisture or corrosives
- Available with sealed, maintenance-free Lead-Calcium batteries
- Fully automatic pulse charger offers 120/277VAC, 60Hz, 0.43/0.2 A, limited current temperature compensation, short circuit proof, reverse polarity protected, low voltage battery disconnect, brownout protection and standard solid state transfer feature
- PAR36 sealed-beam halogen lamps (see lamp selection chart below)
- Standard Self-Diagnostic circuitry continuously monitors every critical function of the unit. If a problem occurs, a single fault indicator on the outside of the fixture flashes immediately. A detailed diagnostic display is located internally. The detailed display will further indicate the nature of the fault as either a battery fault, load fault or a charger fault
- UL Listed. Complies with NEC, Life Safety Code and OSHA. The test switch and AC pilot light are explosion proof in design and exceed requirements for Class I, Division 2, Group A, B, C & D
- 3-year full warranty, excluding lamps, pilot lights and fuses.

Dimensions

Dimensions are approximate and subject to change.

Conduit Fitting

8-3/4"

15"

16"

14-3/8

5"

6-7/8"

Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Wire Guard	WG3-E

Unit Rating

Furnished standard with two 12W High Intensity Sealed Beam Halogen lamps.

Sealed Maintenance-Free Battery Types	D.C Voltage	Model Number	Watts to 87-1/2% of rated battery voltage*			
			1-1/2 hrs	2 hrs	3 hrs	4 hrs
Lead-Calcium	6	6HZM24-2	24	18	10	6
	12	12HZM56-2	56	37	21	12

* National Electrical Code Specification.

How to Order

Note: Includes standard lamps. For standard units without options only order Series Number.

SERIES	# OF HEADS	LAMP TYPE	OPTIONS
6HZM24= 6V-24W, Lead-Calcium **12HZM56**= 12V-56W, Lead-Calcium	**-0**= No head **-1**= One head **-2**= Two heads	**XB**= 6V-8W halogen sealed beam **XD**= 6V-12W halogen sealed beam **XF**= 12V-8W halogen sealed beam **XG**= 12V-12W halogen sealed beam Temperature code: T4A (max. 248ºF/120ºC) No other lamp type available	**-D1**= Time Delay (5 minutes) **-D2**= Time Delay (10 minutes) **-D3**= Time Delay (15 minutes) **-H1**= 120V Thermal Jacket Heater (recommended for ambient temperature) **-H2**= 277V Thermal Jacket Heater (recommended for ambient temperature) **-TC**= Shatter resistant teflon coated lens

Example: **6HZM24-2XB-H1**

TYPE: _____

CATALOG #: _____

NOTES: _____

Survive-All™ SVH Series
Hazardous Location Battery Unit

Features

- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- A range of lamp ratings are available for different temperature codes
- Evaluated to the UL924 Standard
- Certified for use in Damp and Wet locations.
- Ambient temperature: 10… 40°C (50… 104°F)
- Advanced Diagnostics option available
- Lead-Calcium batteries are sealed, maintenance-free, with up to 72W emergency power
- Choice of MR16 LED or halogen lamps, shielded by a clear polycarbonate cover
- Two MR16 LED lamps illuminate up to a 60 ft path of egress
- Remote load capacity: illuminate up to a 420 ft path of egress with LED remote heads
- Polyvinyl chloride frame, with built-in gasket to prevent water infiltration
- Heavy-duty 1/8-inch thick aluminum back plate with keyholes for secure wall-mount installation
- Built-in microcontroller-based battery charger and self-test/self-diagnostic circuitry
- 3/4-inch electrical conduit entry on both sides and at the top

Dimensions

Dimensions are approximate and subject to change.
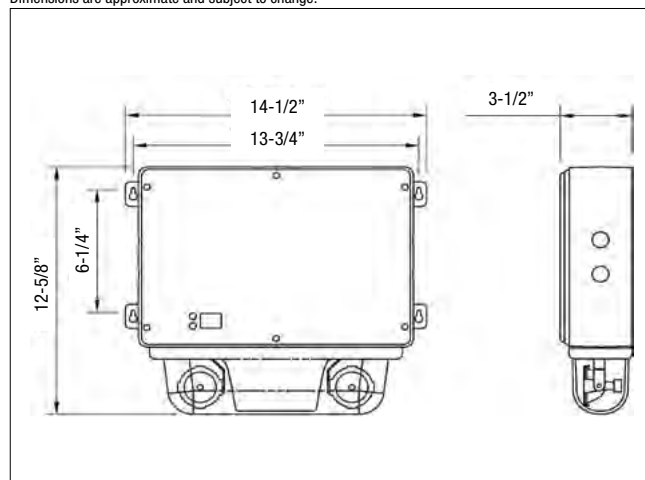
Temperature Codes

Lamp Rating	Temperature Code	Max. Temperature	Replacement Part #
6V-4W	T4A	120°C	580.0097
6V-10W	T3C	160°C	580.0079
12V-4W	T4A	120°C	580.0080
12V-5W	T4A	120°C	580.0104
12V-12W	T3A	180°C	580.0080
12V-20W-H	T2D	215°C	580.0068

Note: Use qualified replacement lamps to avoid risk of over-heating

Power Consumption

Model	AC Specs	Wattage Capacity				
		1-1/2 hrs	2 hrs	3 hrs	4 hrs	8 hrs
SVH18	120/277VAC	0.17 / 0.09 Amp	18	12	9	–	–
12SVH36		0.30 / 0.15 Amp	36	27	18	14	–
12SVH60		0.30 / 0.15 Amp	60	45	30	24	12
12SVH72		0.30 / 0.15 Amp	72	54	36	28	14

How to Order

COLOR	VOLTAGE AND POWER	# OF HEADS	LAMPS	OPTIONS
G= Gray	SVH18M= 6V-18W, Lead-Calcium 12SVH36M= 12V-36W, Lead-Calcium 12SVH60M= 12V-60W, Lead-Calcium 12SVH72M= 12V-72W, Lead-Calcium	-2= Two heads -0= No heads	LA= 6V-4W, 2 X MR16 LED LG= 12V-4W, 2 X MR16 LED LI= 12V-5W, 2 X MR16 LED MK= 12V-12W, MR16 MW= 12V-20W, MR16-IR high-output	-DA= Advanced Diagnostics (audible)* -D= Advanced Diagnostics (non-audible)* -D3= Time delay (15 minutes) -NEX= NEXUS® wired (consult your sales representative)* -NEXRF= NEXUS® wireless (consult your sales representative)* (12SVH only) * Minimum lamp load required: 20% of unit capacity

Example: G12SVH72M-2MK-DA

EMERGI-LITE®

Thomas&Betts
A Member of the ABB Group

TYPE: _____

CATALOG #: _____

NOTES: _____

nexus® | ADVANCED AD DIAGNOSTICS | CSA® US

Survive-All™ SVXH Series
Hazardous Location Combination and Emergency Battery Unit

Features

- Exit sign module is illuminated by long-life, energy-efficient LEDs. Fully field adjustable lamp head assembly comes standard with a selection of two (2) MR16 halogen lamps for optimum illumination over the path of egress. Lamps are shielded by a cast aluminum housing and a polycarbonate cover
- Rugged PVC body will not dent, peel or corrode. The sealed faceplate has a heavy-duty, vandal-resistant polycarbonate cover and is fastened with stainless steel tamper-resistant screws. The polyvinyl chloride frame has a built-in gasket to prevent water infiltration. The heavy-duty 1/8" thick aluminum back plate has keyholes for secure wall mount installation
- Available with sealed, maintenance-free Nickel-Cadmium, or Nickel-Metal Hydride batteries
- Fully automatic pulse charger offers 120/277VAC, 60Hz, current limiting temperature compensation, short circuit proof, low voltage battery disconnect, brownout protection and standard solid state transfer feature. The test switch is magnetically operated
- Advanced Diagnostic circuitry is standard on all Self-Powered models. This circuitry is programmed to ensure the combination unit's readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single "Service Required" indicator illuminates immediately. A detailed diagnostic display that will further indicate the nature of the fault is located on the inside of the exit sign, out of sight from the general public. The self test will test the unit for a minimum of 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually
- Designed for wall-mount installation only with a 1/2" electrical conduit entry on both sides and at the top.
- Evaluated to UL 924 standard and to UL 844 standard for hazardous locations: Class I Division 2, Groups A, B, C and D. A range of lamp ratings are available for different temperature codes
- 5-year full warranty, excluding lamps and fuses

Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Additional special bit for tamper-proof screws	690.0454-E

Applications

- Manufacturing Plants
- Chemical plants
- Paint Shops
- Gas Stations
- Moisture, Dirt or Dust Concerns
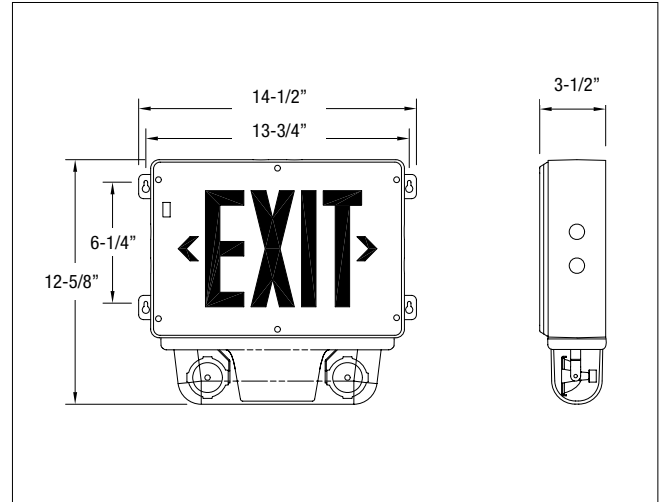- Oil Refineries
- Wet or Corrosive Conditions

Dimensions
Dimensions are approximate and subject to change.

14-1/2"
13-3/4"
3-1/2"
6-1/4"
12-5/8"

Temperature Codes

Lamp Rating	Temperatude Code	Max. Temperature	Replacement Part #
6V-10W	T3C	320°F/160°C	580.0079-E
12V-12W	T3A	356°F/180°C	580.0080-E
12V-20W	T2D	419°F/215°C	580.0068-E
6V-4W LED	T4A	248°F/120°C	580.0097-E
12V-4W LED	T4A	248°F/120°C	580.0093-E
12V-5W LED	T4A	248°F/120°C	580.0104-E

Note: Use qualified replacement lamps to avoid risk of over-heating

Power Consumption Chart

Model	AC Input	Maximum		Stand-by		Unit Rating*			
		Current	Power	Current	Power	1 1/2 hrs	2 hrs	3 hrs	4 hrs
SVXH	120/277VAC	0.15/0.07A	16W	0.09/0.03A	8W	20	15	–	–
SVXH12N	120/277VAC	0.30/0.08A	29W	0.13/0.05A	10W	24	18	12	–
SVXH12H	120/277VAC	0.30/0.08A	29W	0.13/0.05A	10W	40	30	20	12

* Watts to 87-1/2% of rated battery voltage

How to Order

HOUSING/FACE COLOR	SERIES/CAPACITY	LEGEND COLOR	DIAGNOSTICS	# OF HEADS	LAMP TYPE/WATTAGE*
GG= Gray/gray	**SVXH**= 6V-20W, Ni-Cd **SVXH12N**= 12V-24W, Ni-Cd **SVXH12H**= 12V-40W, NiMH	**R**= Red **G**= Green	**DA**= Advanced Diagnostics (audible) **D**= Advanced Diagnostics (non-audible) **NEX**= NEXUS® wired* **NEXRF**= NEXUS® wireless*	**Blank**= 0 head* **2**= Two heads	**LA**= 6V-4W, MR16 LED **LG**= 12V-4W, MR16 LED **LI**= 12V-5W, MR16 LED **MK**= 12V-12W MR16 **MJ**= 6V-10W MR16 **MW**= 12V-20W MR16 IR high output
			* Consult your sales representative	* A remote load must be connected	* No other lamp option available

Example: **GGSVXHRD2MJ**

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EMERGI-LITE®

Survive-All™ SVX-HZ Series
Hazardous Location Exit Sign

Features

- Energy efficient: consumes less than 2.5 watts in any configuration. Exit sign illuminated by long-life, energy-efficient LEDs.
- Single face heavy-duty 1/8" thick aluminum back plate. Polyvinyl chloride frame, with built-in gasket to prevent water infiltration. Will not dent, peel, rust or corrode. The sealed, heavy-duty, vandal-resistant polycarbonate faceplate features an evenly illuminated legend. The fully gasketed faceplate is fastened with stainless steel tamper-resistant screws. Self contained; batteries and circuitry are located inside the exit housing.
- Available with sealed, maintenance-free Nickel-Cadmium batteries that provide 90 minutes of emergency operation. Batteries recharge per UL924 requirements.
- AC and Self-Powered models have universal, 2-wire input 120V to 277VAC 50/60Hz.
- Tamper-resistant, hermetically sealed magnetic test switch for Self-Powered models.
- Diagnostic / Self Test circuitry is standard on all Self-Powered models. This circuitry is programmed to ensure the exit sign's readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single "service required" indicator illuminates immediately. A detailed diagnostic display that will further indicate the nature of the fault is located on the inside of the exit sign, out of sight from the general public. The self test will test the unit for a minimum of 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually.
- Can be wall, end or ceiling mounted. Comes standard with an industrial-grade, Die-Cast aluminum electrical box. 1/2" electrical conduit entry on both sides and at the top. Each unit comes standard with one tamper-proof driver bit.
- Legend and chevron comply with UL requirements. Evaluated to the UL 844 standard for Class I Division 2, Groups A, B, C and D, Temperature Code: T6 (maximum 185°F/85°C). Evaluated to UL 924 and UL1598 standards. Suitable for cold-weather: -4°F/-20°C (Self-Powered model, "CW" option) and -40°F/-40°C (AC only).
- 5-year full warranty

Dimensions

Dimensions are approximate and subject to change.
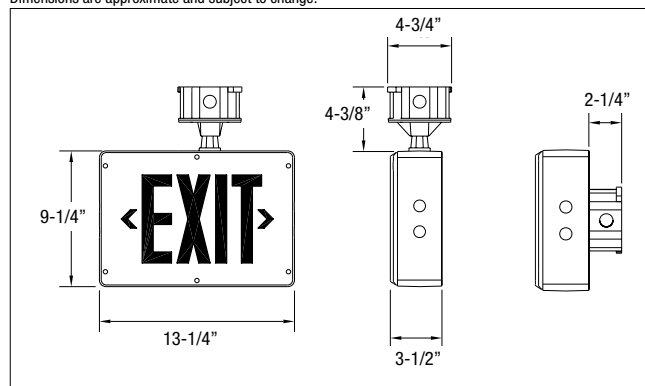
Power Consumption

Model	AC Specs		DC Specs	
AC-only red	120 to 277VAC	Less than 2W	–	–
AC-only green	120 to 277VAC	Less than 1.5W	–	–
Self-Powered red	120 to 277VAC	Less than 2W	Ni-Cd battery	Min. 90 minutes
Self-Powered green	120 to 277VAC	Less than 2.5W	Ni-Cd battery	Min. 90 minutes

* Note: Cold-weather option does not consume additional power

Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Tamper-Proof Bit (extra)	690.0454-E
Convert single to double face, red*	DFKR-GY
Convert single face to double face, green*	DFKG-GY

* In the field

Applications

- Manufacturing Plants
- Chemical plants
- Paint Shops
- Gas Stations
- Moisture, Dirt or Dust Concerns
- Oil Refineries
- Wet or Corrosive Conditions

How to Order

COLOR OF BODY/FACE	SERIES	FACE	LEGEND	DIAGNOSTIC	OPTIONS
GG= Gray/gray	**SVXHZ**= AC only **SVXNHZ**= Self-Powered Ni-Cd	**1**= Single (ceiling/wall mount) **2**= Double (ceiling mount only)	**R**= Red **G**= Green	**-D**= Diagnostic (Self-Powered only) **-NEX**= NEXUS® wired (consult your sales representative)	**Blank**= AC only **CW**= Cold weather (-4°F/-20°C for Self-Powered and -40°F/-40°C for AC only)

Example: **GGSVXNHZ2R-DCW**

EMERGI-LITE®

Thomas&Betts
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TYPE: _____

CATALOG #: _____

NOTES: _____

Survive-All™ EF41 Series
Remote Fixture for Hazardous Locations

Features

- Available with single or double lamp heads with high-efficiency MR16 halogen lamps of 10W, 12W or 20W (see How to Order information) and MR16 high-output LEDs (4W, 5W and 6W)
- Die-Cast aluminum back plate with gasket. Clear polycarbonate cover, UV and impact resistant
- Input voltage: 6V, 12V, 24V or 120V
- Easy installation on a 4" octagonal box (included). Comes standard with tamper-proof screws and bit
- Evaluated to UL 844 Standard for Class I Division 2, Groups A, B, C and D. Temperature Codes: T3B (10W and 12W MR16 lamps) and T2C (20W MR16 lamps) and T4A and T5 MR16 LED.
- Extreme operational temperature range: -40ºF to +104ºF (-40ºC to +40ºC)
- Indoor use
- Fully adjustable tool-less aiming swivel
- Tool-less easy lamp replacement
- Surface mount
- Conduit entry 1/2" NPT

Dimensions
Dimensions are approximate and subject to change.

7-1/8"

5-7/8"

Remote Fixture   Junction box

3-3/4"   2-1/8"

4-5/8"
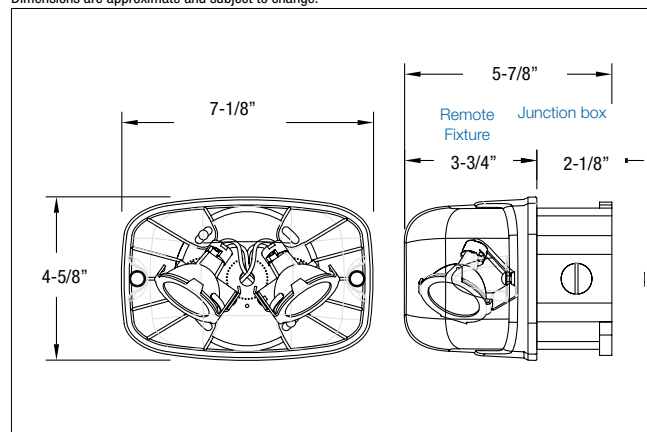
Lamp Selection Chart and Temperature Code

Lamp Suffix	Voltage	Wattage	Lumens	Replacement #	Temperature Code	Max Temperature
MJ	6	10	74	580.0079-E	T3B	165°C
MK	12	12	80	580.0080-E	T3B	165°C
MW	12	20-H	400	580.0068-E	T2C	230°C
MS	24	12	82	580.0070-E	T3B	165°C
MD	24	20	240	580.0077-E	T2C	230°C
MT	120	20	100	580.0065-E	T2C	230°C
LA	6	4	200	580.0097-E	T4A	120°C
LG	12	4	220	580.0093-E	T5	100°C
LI	12	5	340	580.0104-E	T4A	120°C
LJ	12	6	540	580.0106-E	T4	135°C
LL	24	4	220	580.0098-E	T5	100°C
LW	120	4	230	580.0113-E	T4A	120°C

How to Order

SERIES	LAMP TYPE/WATTAGE	COLOR
EF41= Single **EF41D**= Double	**(LA)**= 6V-4W, MR16 LED **(LG)**= 12V-4W, MR16 LED **(LI)**= 12V-5W, MR16 LED **(LJ)**= 12V-6W, MR16 LED **(LL)**= 24V-4W, MR16 LED **(LW)**= 120V-4W, MR16 LED **(MJ)**= 6V-10W, MR16 **(MK)**= 12V-12W, MR16 **(MW)**= 12V-20W, MR16 IR high output **(MS)**= 24V-12W, MR16 **(MD)**= 24V-20W, MR16 **(MT)**= 120 VAC/VDC-20W MR16 (GU10)	**-GY**= Gray

Example: **EF41(MJ)-GY**

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EMERGI-LITE®

TYPE: _____

CATALOG #: _____

NOTES: _____

IL Series
6, 12 & 24 Volt Heavy Duty Industrial Emergency Power Unit

Features

- Each unit comes with two (2) impact resistant, flame retardant thermoplastic EF-18 lamp heads with 9 watt high intensity incandescent lamps (standard).
- All 20 gauge in steel construction ASA61 gray baked enamel finish.
- Available with sealed, maintenance-free Nickel-Cadmium, Long Life Lead, Lead-Calcium (Free Electrolyte) or Lead-Calcium batteries.
- PulsePlus Charger circuitry offers 120/277 volt input 60 Hz, 0.3/0.15A (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).
- Provision for mounting to any standard 4" octagonal electrical box. The hinged and lockable front door allows easy access for maintenance and provides security against unauthorized access and vandalism.
- UL Listed. Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania.
- 3-year full warranty, excluding lamps and fuses.

Dimensions
Dimensions are approximate and subject to change.

Knockouts for 1/2" Conduit: -2 each side, 1 rear (7/8" Dia) knockout

16-1/2"

16-1/8"

10-3/8"

4-3/4"
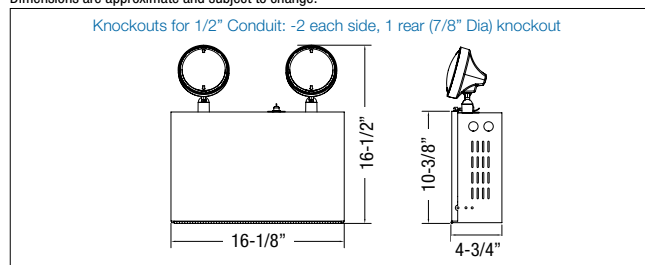
Accessories (order as a separate item)

DESCRIPTION	SUFFIX
Mounting bracket	B2
Mounting shelves (gray)	MP3-GY
Wire Guard	WG3-E

Unit Rating Chart
Furnished standard with two 9 watt High Intensity Incandescent lamps.

Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	Watts to 87-1/2% of rated battery voltage*				# of Load Fuses
			1-1/2 hrs	2 hrs	4 hrs	8 hrs	
UNIT EQUIPMENT - NO REMOTE CAPABILITY							
Nickel-Cadmium	6	ILSC18-2	18	12	6	–	–
Long Life Lead	6	ILSE18-2	18	11	6	–	–
Lead-Calcium	6	ILSM18-2	18	12	7	–	–
UNIT EQUIPMENT - WITH REMOTE CAPABILITY							
Nickel-Cadmium	6	ILSC25-2	25	18	9	–	–
	12	12ILSC36-2	36	21	12	6	1
	12	12ILSC50-2	50	36	18	10	1
	24	24ILSC72-2	72	42	24	12	2
	24	24ILSC100-2	100	73	36	20	2
Long Life Lead	6	ILSE27-2	27	16	10	6	–
	6	ILSE36-2	36	24	13	7	–
	6	ILSE54-2	54	36	20	11	–
	6	ILSE80-2	80	65	35	19	–
	6	ILSE110-2	110	72	40	24	–
	12	12ILSE36-2	36	24	13	7	1
	12	12ILSE54-2	54	37	21	10	1
	12	12ILSE72-2	72	48	26	14	2
	12	12ILSE110-2	110	74	43	21	2
	24	24ILSE72-2	72	48	26	14	2
	24	24ILSE110-2	110	74	43	21	2
Lead-Calcium (Immobilized Electrolyte)	6	ILC87-2	87	70	41	24	–
	6	ILC100-2	100	77	47	24	–
Lead-Calcium	6	ILSM27-2	27	18	10	6	–
	6	ILSM36-2	36	25	14	7	–
	6	ILSM54-2	54	37	21	12	–
	6	ILSM81-2	81	54	36	18	–
	6	ILSM110-2	110	72	40	24	–
	12	12ILSM36-2	36	25	14	7	1
	12	12ILSM54-2	54	37	21	12	1
	12	12ILSM110-2	110	72	40	24	2
	24	24ILSM110-2	110	72	40	24	2

* National Electrical Code Specification

EMERGI-LITE®

Thomas&Betts
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TYPE: _____

CATALOG #: _____

NOTES: _____

IL Series
6, 12 & 24 Volt Heavy Duty Industrial Emergency Power Unit

How to Order

SERIES/VOLTAGE	UNIT CAPACITY	# OF HEADS	LAMP	OPTIONS
ILC= 6V	**87**= 87W Lead-Calcium **100**= 100W Lead-Calcium	**-0**= No head **-1**= One head **-2**= Two heads **-3**= Three heads	**Blank**= 6V-9W, 12V-9W, 24V-9W incandescent wedge base **H_**= Halogen bi-pin **Z_**= Tungsten incandescent **U_**= Tungsten sealed beam **X_**= Halogen sealed beam	**-AD**= Advanced Diagnostics (audible)* **-ADNA**= Advanced Diagnostics (non-audible)* **NEX**= NEXUS® wired (consult your sales representative)* **NEXRF**= NEXUS® wireless (consult your sales representative)* **-A**= Ammeter **-V**= Voltmeter **-CP**= Cord and plug 120V only **-D1**= Time Delay (5 minutes) **-D2**= Time Delay (10 minutes) **-D3**= Time Delay (15 minutes) **-E**= Cord and plug 277V** **-0W**= Off-white cabinet and heads
ILS= 6V	**C18**= 18W Ni-Cd **C25**= 25W Ni-Cd **E18**= 18W Long Life Lead **E27**= 27W Long Life Lead **E36**= 36W Long Life Lead **E50**= 50W Long Life Lead **E80**= 80W Long Life Lead **E110**= 110W Long Life Lead **M18**= 18W Lead-Calcium **M27**= 27W Lead-Calcium **M36**= 36W Lead-Calcium **M54**= 54W Lead-Calcium **M81**= 81W Lead-Calcium **M110**= 110W Lead-Calcium			
12ILS= 12V	**C36**= 36W Ni-Cd **C50**= 50W Ni-Cd **E36**= 36W Long Life Lead **E54**= 54W Long Life Lead **E80**= 80W Long Life Lead **E110**= 110W Long Life Lead **M36**= 36W Lead-Calcium **M54**= 54W Lead-Calcium **M110**= 110W Lead-Calcium			
24ILS= 24V	**C100**= 100W Ni-Cd **E72**= 72W Long Life Lead **E110**= 110W Long Life Lead **M110**= 110W Lead-Calcium **C72**= 72W Ni-Cd		NOTE: For a complete list of available lamp types, please refer to the lamp data on pages 146-147	* Minimum lamp load required: 20% of unit capacity Option not available with 24V-100W Ni-Cd units ** Standard cord is 3 ft

Example: **ILC87-2HB-A**

TYPE: _____

CATALOG #: _____

NOTES: _____

KS Steel Series
6, 12, 24 Volt
Harsh Environment Enclosure Power Unit

Features

- Up to three weather-resistant thermoplastic heads can be mounted on the enclosure. Each unit comes with two (2) 9W high intensity incandescent lamps (standard)
- Constructed of 14 gauge steel with a fully gasketed hinged door and separate battery compartment. Gray baked epoxy enamel finish
- Available with sealed, maintenance-free Nickel-Cadmium, Long Life Lead, Lead-Calcium (Free Electrolyte), or Lead-Calcium batteries
- PulsePlus Charger circuitry offers 120/277V input 60Hz, 0.3/0.15A (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect)
- UL Listed. Complies with NEC, Life Safety Code and OSHA
- 3-year full warranty, excluding lamps and fuses

Dimensions
Dimensions are approximate and subject to change.

12-1/8" 13-1/2" 19-3/8"

13-1/2"
13-7/8" 6"

Unit Rating Chart
Furnished standard with two 9 watt High Intensity Incandescent lamps.

Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	Watts to 87-1/2% of rated battery voltage*			
			1½ hrs	2 hrs	3 hrs	4 hrs
Nickel-Cadmium	6	KSC18-2	18	12	10	7
Long Life Lead	6	KSE18-2	18	11	8	6
UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Nickel-Cadmium	6	KSC25-2	25	18	9	5
	12	12KSC36-2	36	21	21	6
	12	12KSC50-2	50	36	18	10
	12	12KSC100-2	100	73	37	20
	24	24KSC100-2	100	73	37	20
Long Life Lead	6	KSE27-2	27	19	10	5
	6	KSE36-2	36	24	13	7
	6	KSE54-2	54	36	20	11
	6	KSE80-2	80	65	35	19
	6	KSE110-2	110	74	43	21
	6	KSE160-2	160	130	70	38
	12	12KSE36-2	36	24	13	7
	12	12KSE54-2	54	37	21	10
	12	12KSE110-2	110	74	43	21
	12	12KSE160-2	160	130	70	38
	24	24KSE110-2	110	74	43	21
Lead-Calcium (Immobilized Electrolyte)	6	KC87-2	87	70	41	24
	6	KC100-2	100	77	47	24
	6	KC175-2	175	140	85	48
	12	12KC175-2	175	140	85	48
Lead-Calcium	6	KSM27-2	27	18	10	6
	6	KSM54-2	54	37	21	12
	6	KSM81-2	81	54	30	18
	6	KSM110-2	110	72	40	24
	12	12KSM54-2	54	37	21	12
	12	12KSM110-2	110	72	40	24
	24	24KSM110-2	110	72	40	24

*National Electrical Code Specification

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KS Steel Series
6, 12, 24 Volt
Harsh Environment Enclosure Power Unit

How to Order

SERIES/VOLTAGE	UNIT CAPACITY	# OF HEADS	LAMP	OPTIONS
KS= 6V	**C18**= 6V-18W Ni-Cd **C25**= 6V-25W Ni-Cd **E18**= 6V-18W Long Life Lead **E27**= 6V-27W Long Life Lead **E36**= 6V-36W Long Life Lead **E54**= 6V-54W Long Life Lead **E80**= 6V-80W Long Life Lead **E110**= 6V-110W Long Life Lead **E160**= 6V-160W Long Life Lead **M27**= 6V-27W Lead-Acid **M54**= 6V-54W Lead-Acid **M81**= 6V-81W Lead-Acid **M110**= 6V-110W Lead-Acid	**-0**= No head **-1**= 1 head **-2**= 2 heads	**Blank**= 6V-9W, 12V-9W, 24V-9W incandescent wedge base **H_**= Halogen bi-pin **I_**= Incandescent DC-bayonet **U_**= Incandescent sealed-beam **X_**= Halogen sealed-beam **Z_**= Incandescent wedge	**-AD**= Advanced Diagnostics (audible)* **-ADNA**= Advanced Diagnostics (non-audible)* **NEX**= Nexus® wired (consult your sales representative)* **NEXRF**= Nexus® wireless (consult your sales representative)* **-V**= Voltmeter **-A**= Ammeter **-TD**= Time Delay **-D1**= Time Delay (5 minutes) **-D2**= Time Delay (10 minutes) **-D3**= Time Delay (15 minutes) **-K**= Lamp Disconnect Switch **-CP**= Cord and plug 120V for fiberglass enclosure** **-E**= Cord and plug 277V** **-S**= Photometric test switch **-VR**= Tamper proof screws **-FL**= Large cabinet **-TM**= Top mounted heads **-208V**= Input 208VAC, 50/60Hz
12KS= 12V	**C36**= 12V-36W Ni-Cd **C50**= 12V-50W Ni-Cd **C100**= 12V-100W Ni-Cd **E36**= 12V-36W Long Life Lead **E54**= 12V-36W Long Life Lead **E110**= 12V-110W Long Life Lead **E160**= 12V-160W Long Life Lead **M54**= 12V-54W Lead-Acid **M110**= 12V-110W Lead-Acid			
24KS= 24V	**C100**= 24V-100W Ni-Cd **E110**= 24V-110W Long Life Lead **M110**= 24V-110W Lead-Calcium			
K= 6V	**C87**= 6V-87W Lead-Calcium (free electrolytes) **C100**= 6V-100W Lead-Calcium (free electrolytes) **C175**= 6V-175W Lead-Calcium (free electrolytes)			
12K= 12V	**C175-2**= 12V-175W Lead-Calcium (free electrolytes)		NOTE: For a complete list of available lamp types, please refer to the lamp data on pages 146-147	* Minimum lamp load required: 20% of unit capacity Option not available on 24V-100W Ni-Cd units ** Standard cord is 3 ft.

Example: **KSC18-2HB-AD**

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EMERGI-LITE®

TYPE: _____

CATALOG #: _____

NOTES: _____

KS Series
6, 12 & 24 Volt
High Impact Enclosure Power Unit

Features

- Each unit comes with two (2) 9W high intensity incandescent lamps (standard).
- Both the "S" and "L" enclosure are corrosion resistant. Both include separate battery compartments, fully gasketed door and stainless steel hardware. The "S" enclosure is constructed of high impact thermoplastic and the "L" enclosure is constructed of fiberglass and is NEMA 3R
- Available with sealed, maintenance-free Nickel-Cadmium, Long Life Lead, Lead-Calcium (Free Electrolyte) or Lead-Calcium batteries.
- PulsePlus Charger circuitry offers 120/277 volt input 60 Hz, 0.3/0.15A (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).
- UL Listed. Complies with NEC, Life Safety Code and OSHA.
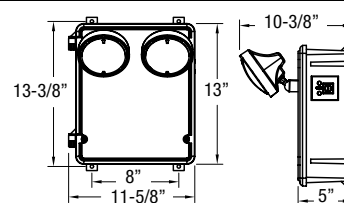- 3-year full warranty, excluding lamps and fuses.

Accessories (order as a separate item)

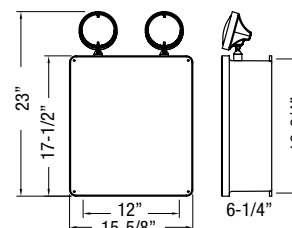| DESCRIPTION	SUFFIX
Wire Guard (Small enclosure)	WG3-E
Wire Guard (Large enclosure)	WG4-E

Dimensions
Dimensions are approximate and subject to change.

Small "S" Enclosure High Impact Thermoplastic Construction

13-3/8" 13" 10-3/8" 8" 11-5/8" 5"

Large "L" Enclosure Fiberglass Construction NEMA-3R

23" 17-1/2" 16-3/4" 12" 15-5/8" 6-1/4"

Unit Rating

Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	Watts to 87-1/2% of rated battery voltage*				Enclosure Size
UNIT EQUIPMENT - NO REMOTE CAPABILITY			1-1/2 hrs	2 hrs	3 hrs	4 hrs	
Nickel-Cadmium	6	KSC18-2-F	18	12	10	7	S
Long Life Lead	6	KSE18-2-F	18	11	8	6	S
UNIT EQUIPMENT - WITH REMOTE CAPABILITY							
Nickel-Cadmium	6	KSC25-2-F	25	18	9	5	S
	12	12KSC36-2-F	36	21	21	6	S
	12	12KSC50-2-F	50	36	18	10	S
	12	12KSC100-2-F	100	73	37	20	S
	24	24KSC100-2-F	100	73	37	20	S
Long Life Lead	6	KSE27-2-F	27	19	10	5	S
	6	KSE36-2-F	36	24	13	7	S
	6	KSE54-2-F	54	36	20	11	S
	6	KSE80-2-F	80	65	35	19	S
	6	KSE110-2-F	110	74	43	21	S
	6	KSE160-2-F	160	130	70	38	L
	12	12KSE36-2-F	36	24	13	7	S
	12	12KSE54-2-F	54	37	21	10	S
	12	12KSE110-2-F	110	74	43	21	S
	12	12KSE160-2-F	160	130	70	38	L
	24	24KSE110-2-F	110	74	43	21	S
Lead-Calcium (Free Electrolyte)	6	KC87-2-F	87	70	41	24	S
	6	KC100-2-F	100	77	47	24	L
	6	KC175-2-F	175	140	82	48	L
	12	12KC175-2-F	175	140	85	48	L
Lead-Calcium	6	KSM27-2-F	27	18	10	6	S
	6	KSM54-2-F	54	37	21	12	S
	6	KSM81-2-F	81	54	30	18	S
	6	KSM110-2-F	110	72	40	24	S
	12	12KSM54-2-F	54	37	21	12	S
	12	12KSM110-2-F	110	72	40	24	S
	24	24KSM110-2-F	110	72	40	24	S

*National Electrical Code Specification

TYPE: _____

CATALOG #: _____

NOTES: _____

NEMA-3R (UL) nexus® **AD** ADVANCED DIAGNOSTICS

KS Series
6, 12 & 24 Volt
High Impact Enclosure Power Unit

How to Order

SERIES/VOLTAGE	UNIT CAPACITY	# OF HEADS	LAMP	ENCLOSURE TYPE	OPTIONS
KS= 6V	**C18**= 6V-18W Ni-Cd **C25**= 6V-25W Ni-Cd **E18**= 6V-18W Long Life Lead **E27**= 6V-27W Long Life Lead **E36**= 6V-36W Long Life Lead **E54**= 6V-54W Long Life Lead **E80**= 6V-80W Long Life Lead **E110**= 6V-110W Long Life Lead **E160**= 6V-160W Long Life Lead **M27**= 6V-27W Lead-Acid **M54**= 6V-54W Lead-Acid **M81**= 6V-81W Lead-Acid **M110**= 6V-110W Lead-Acid	**-0**= No head **-1**= 1 head **-2**= 2 heads	**Blank**= 6V-9W, 12V-9W, 24V-9W incandescent wedge base **H_**= Halogen bi-pin **I_**= Incandescent DC-bayonet **U_**= Incandescent sealed-beam **X_**= Halogen sealed- beam **Z_**= Incandescent wedge	**F**= Fiber glass or high impact thermoplastic	**-AD**= Advanced Diagnostics (audible)* **-ADNA**= Advanced Diagnostics (non-audible)* **NEX**= Nexus® wired (consult your sales representative)* **NEXRF**= Nexus® wireless (consult your sales representative)* **-V**= Voltmeter **-A**= Ammeter **-TD**= Time Delay **-D1**= Time Delay (5 minutes) **-D2**= Time Delay (10 minutes) **-D3**= Time Delay (15 minutes)** **-K**= Disconnect Switch **-CP**= Cord and plug 120V for fiberglass enclosure** **-E**= Cord and plug 277V** **-S**= Photometric test switch **-VR**= Tamper-proof screws **-FL**= Large cabinet **-TM**= Top mounted heads **-208V**= Input 208VAC, 50/60Hz
12KS= 12V	**C36**= 12V-36W Ni-Cd **C50**= 12V-50W Ni-Cd **C100**= 12V-100W Ni-Cd **E36**= 12V-36W Long Life Lead **E54**= 12V-36W Long Life Lead **E110**= 12V-110W Long Life Lead **E160**= 12V-160W Long Life Lead **M54**= 12V-54W Lead-Acid **M110**= 12V-110W Lead-Acid				
24KS= 24V	**C100**= 24V-100W Ni-Cd **E110**= 24V-110W Long Life Lead **M110**= 24V-110W Lead-Calcium				
K= 6V	**C87-2-F**= 6V-87W Lead-Calcium (free electrolytes) **C100-2-F**= 6V-100W Lead-Calcium (free electrolytes) **C175-2-F**= 6V-175W Lead-Calcium (free electrolytes)				
12K= 12V	**C175-2**= 12V-175W Lead-Calcium (free electrolytes)		NOTE: For a complete list of available lamp types, please refer to the lamp data on pages 146-147		* Minimum lamp load required: 20% of unit capacity Not available on 24V-100W Ni-Cd units ** Standard cord is 3 ft.

Example: **KS18-2HB-AD**

EXC Series
6 and 12 Volt – Class I, Div. 1 & 2, Groups C & D and Class II, Div. 1 & 2, Groups E, F & G Power Unit

Features

- Allows mounting up to 3 hazardous area fixtures directly on the power unit or remotely.
- Corrosion-resistant, copper-free cast aluminum construction. A weatherproof gasketed spinoff cover, UL listed stainless steel vent/drain and silicone conformal coating on the circuit board protect the electronics against humidity. Comes standard with epoxy finish for added corrosion protection in harsh environments.
- Available with sealed, maintenance-free Nickel-Cadmium batteries.
- Charger offers 120/277 VAC, 60 Hz, 0.3/0.15A, 36 watt (other inputs available), fused DC output circuit, AC pilot light supervision, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection, lockout (automatic battery connect), solid state, current limited, constant current short circuit proof and reverse polarity protection.
- Meets hazardous location requirements: Class I Division 1 & 2 (Groups C & D), Class II Division 1 & 2 (Groups E, F & G).
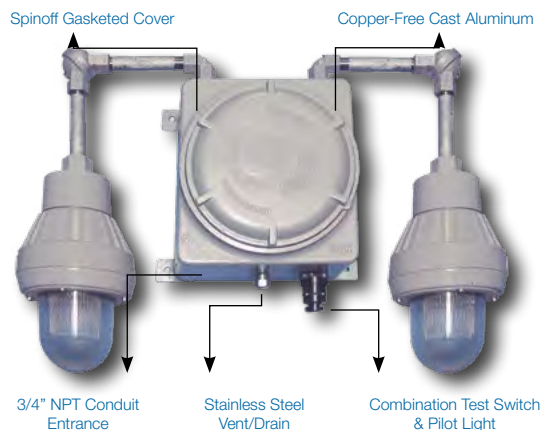- 3-year full warranty, excluding lamps, pilot lights, and fuses.

Fixtures

The **EXC Series** may be supplied with 1 or 2 hazardous fixtures mounted directly on the power unit and/or remotely as the application dictates (for remote fixtures, consult hazardous area fixture data sheet).

Lamp Fixtures (EP Series) See page 72: Fully directional U.L. listed copper-free cast aluminum construction, swivel-mounted, Pyrex® lens, complete with either 9, 18, or 25 watt HIT lamps (halogen optional). Available with optional guard or reflectors. Pyrex® is a registered trademark of Corning Glass.

Exit Fixtures (XP Series) See page 73: Mounted to the power unit, these exit signs are supplied standard with our unique integral transfer switch (TS) and utilize either a 6V-15W XX6 lamp or 12V-25W XX12 lamp. This enables the exit to operate in both the normal AC mode as well as DC mode. The exit sign consists of an EP fixture coupled with a heavy duty steel, baked enamel finish exit shroud with ample downlight. Supplied standard as a single face sign, red stencil faceplate; double face and green stencil also available.

For other legends, please consult your sales representative.

Spinoff Gasketed Cover   Copper-Free Cast Aluminum

3/4" NPT Conduit Entrance   Stainless Steel Vent/Drain   Combination Test Switch & Pilot Light

Dimensions
Dimensions are approximate and subject to change.

Housing:
12" X 12" X 9 1/2"
(4) Mounting Lugs:
10" and 13 1/2" on center

Overall dimensions
(including fixtures):
38" X 38" X 10"

Note: Dimensions are approximate and are subject to change.
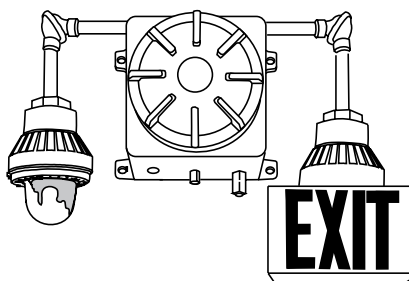
EXIT

Unit Rating

UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	Watts to 87-1/2% of rated battery voltage*			
			1-1/2 hrs	2 hrs	4 hrs	8 hrs
Nickel-Cadmium	6	EXC1	18	12	–	–
	6	EXC2	25	18	9	–
	6	EXC3	36	21	12	6
	6	EXC5	50	36	18	10
	12	1EXC3	36	21	12	6
	12	1EXC5	50	36	18	10
	12	1EXC7	72	42	24	12

*National Electrical Code Specification

TYPE: _____

CATALOG #: _____
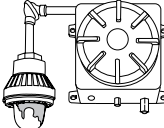
NOTES: _____
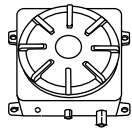
EXC Series
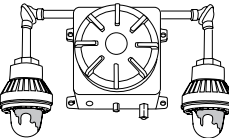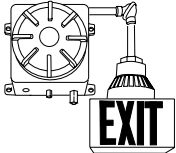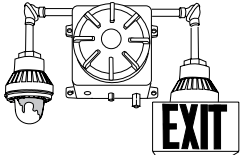## 6 and 12 Volt – Class I, Div. 1 & 2, Groups C & D
And Class II, Div. 1 & 2, Groups E, F & G Power Unit

Standard Configurations for EXC Series

UNIT	CATALOG NUMBER	DESCRIPTION
(Remote Capability)	1EXC5-0 1EXC5-TS	12 volt, 50 watt self-contained hazardous area emergency lighting power unit complete with battery and charger. (No heads) 12 volt, 50 watt self-contained hazardous area emergency lighting power unit complete with battery, charger and transfer switch. (No heads)
	1EXC5-1IG 1EXC5-1IG-TS	12 volt, 50 watt, single head unit with 12 volt, 25 watt HIT lamp. (One head) 12 volt, 50 watt, single head unit with built-in transfer switch and 12 volt, 25 watt HIT lamp. (One head)
	EXC3-2IB EXC5-2IB-TS	6 volt, 36 watt, self-contained hazardous area emergency lighting power units complete with battery and charger. Fixture supplied with one (IB) 18 watt HIT lamp (Two heads) 6 volt, 50 watt, double head unit with built-in transfer switch and 12 volt, 25 watt HIT lamp (Two heads)
EXIT	EXC2-T1SR	6 volt, 15 watt, self-contained unit with integral low voltage transfer circuit (TS) to operate exit lamp in both normal and emergency modes. Suggested catalog number shown indicates single face exit with red stencil faceplate. For green, substitute G for R. For double face, substitute D for S. (One Exit sign)
EXIT	EXC-1HD-T1SR	6 volt, 50 watt unit. In addition to the exit lamp which operates in both normal and emergency modes, emergency lighting can be achieved with (1) additional emergency lighting head. (Example: HD = 6V-12W). (One head & one Exit sign)

Note: Above units are supplied with appropriate wattage (HIT) High Intensity Tungsten lamps (unless otherwise specified). Alternate wattages lamps or halogen lamps may be substituted as required.
    Exit provided with 25 watt lamps only.

How to Order
The **EXC Series** is available with a wide variety of fixtures, mountings, voltages, etc. To make your selection easier, we have listed the standard configurations in the chart above. When ordering exit fixtures, additional to the basic catalog number, you must specify single or double face and color of faceplate.
Insert these suffix letters at the end of model number.

SERIES	CAPACITY	NO. OF FIXTURES	LAMPS*	EXIT SIGN*	OPTIONS
EXC= 6V **1EXC**= 12V	**1**= 18W (6V only) **2**= 25W (6V only) **3**= 36W (6V, 12V) **5**= 50W (6V, 12V) **7**= 72W (12V only)	**-0**= No remote **-1**= One remote **-2**= Two remotes	**Blank**= No lamps **HB**= 6V-8W bi-pin halogen **HD**= 6V-12W bi-pin halogen **HF**= 12V-8W bi-pin halogen **HG**= 12V-12W bi-pin halogen	**Blank**= No exits **-T1SR**= Single face red **-T1SG**= Single face green **-T1DR**= Double face red **-T1DG**= Double face green	**Blank**= No options **TS**= Transfer switch **-D1**= Time Delay (5 minutes) **-D2**= Time Delay (10 minutes) **-D3**= Time Delay (15 minutes) **-RD**= Dome reflector **-RA**= Angle reflector **-GXP**= Aluminum guard
			* Lamps for emergency lights	* Exit lamp included	

Example: **1EXC7-1HG-T1SR-D1**

EMERGI-LITE®

EFEPC= Ceiling mount – 11 lbs.

EFEPP= Pendant Mount with hanger box & pendant – 14 lbs

EFEP Series
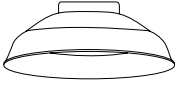## Remote Explosion-Proof Lighting Fixtures

Features

• Available with 6, 12 and 24V lamps for DC operation or 120V AC fixtures.

• Manufactured of heavy cast aluminum with an epoxy finish and a Pyrex® lens. All attached hardware has been designed for explosion-proof applications.

• Designed for mounting in locations that are remote from the power source. If the power source is installed outside hazardous areas, the length of connection wires should be carefully considered to ensure that the voltage of the emergency power unit and the wire size of the connecting circuit are adequate to offset the voltage drop in the circuit.

• EFEPP and EFEP1, 2 and 3 fixtures include elbows swivels, a conduit extension pipe (6" increments), and a combination explosion-proof junction box/mounting plate (4" box, 6 1/4" mounting center).

• Complies with NEC, OSHA and NEMA specifications for the following Classes and Groups:
Class I, Division 1 & 2, Groups C & D (300W PS-25 max)
Class II, Division 1 & 2, Groups E, F & G (60W max)
Class III, Division 1 & 2 (150 watt max)
UL Listed for use in Paint Spray Areas (75W max)
Suitable for Wet Locations

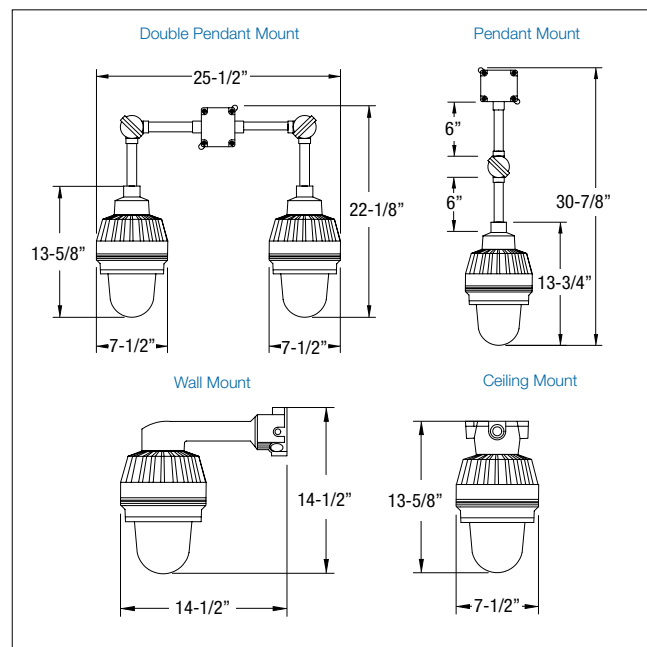Pyrex® is a registered trademark of Corning Glass.

EFEPW= Wall bracket mount 14 lbs.

EFEP1= Single 12 lbs.
EFEP2= Double 21 lbs.
EFEP3= Triple 30 lbs.

Dimensions
Dimensions are approximate and subject to change.

Double Pendant Mount
25-1/2"
22-1/8"
13-5/8"
7-1/2"
7-1/2"

Pendant Mount
6"
6"
30-7/8"
13-3/4"

Wall Mount
14-1/2"
14-1/2"

Ceiling Mount
13-5/8"
7-1/2"

Standard Configurations for EXC Series

UNIT	DESCRIPTION	SUFFIX
	Guard One-piece aluminum casting construction, attaches to globe holder ring with four screws.	GXP
	Dome Reflector Highly reflective white finish inside and out, attaches to globe holder ring with four screws.	RD
	Angle Reflector Highly reflective white finish inside and out, attaches to globe holder ring with four screws.	RA

How to Order

SERIES	MOUNTING	LAMPS	OPTIONS
EFEP= Remote series	**C**= Ceiling mount **P**= Pendant **W**= Wall **2**= Double pendant mount	**(HB)**= 6V-8W bi-pin halogen **(HD)**= 6V-12W bi-pin halogen **(XX6)**= 6V-15W bi-pin halogen **(HF)**= 12V-8W bi-pin halogen **(HG)**= 12V-12W bi-pin halogen **(AC)**= 120v-25W A19	**Blank**= No options **-GXP**= Aluminum guard **-RD**= Dome reflector **-RA**= Angle reflector

Example: **EFEPC(HB)-GXP**

TYPE: _____

CATALOG #: _____

NOTES: _____

EFXPW= Wall Bracket Mount

EFXP Series
Explosion-Proof Remote Exit Signs

Standard Features

- Available with 6, 12 and 24 volt lamps for DC operation or 120 volt AC fixtures
- Exits shown are explosion-proof fixtures of heavy cast aluminum construction with Pyrex® lenses. Exit housing is an 18 gauge fabricated steel box with a baked enamel finish. Stenciled exit lettering is available on one or two faces. All EFXP Series have extra large downlight openings
- EFXP units are designed for mounting in locations that are remote from the power source. If the power source is installed outside hazardous areas, the length of the connection wires should be carefully considered to ensure that the voltage of the emergency power unit and the wire size of the connecting circuit are adequate to offset the voltage drop in the circuit
- Complies with NEC, OSHA and NEMA specifications for the following Classes and Groups:
  Class I, Division 1 & 2, Groups C & D (300W PS-25 max)
  Class II, Division 1 & 2, Groups E, F & G (60W max)
  Class III, Division 1 & 2 (150W max)
  U.L. listed for use in Paint Spray Areas (75W max)
  Suitable for Wet Locations

Pyrex® is a registered trademark of Corning Glass.

EFXPP= Adjustable Pendant Mount

EFXPC= Ceiling Mount

Mounting

The transfer circuit is not designed for use in hazardous or explosive areas. The transfer circuit is to be mounted remotely from hazardous areas.
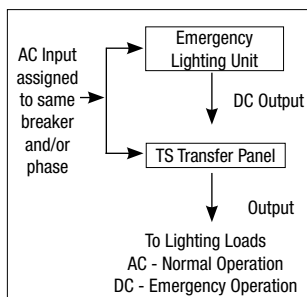
Electrical Specifications for Transfer Panel

Input Voltage:
From AC - 120 Volt, 60Hz, 1 phase (other voltages available).
From DC - 6, 12, 24 or 120 Volt (select).

Output Voltage: Must be identical to DC Input Voltage

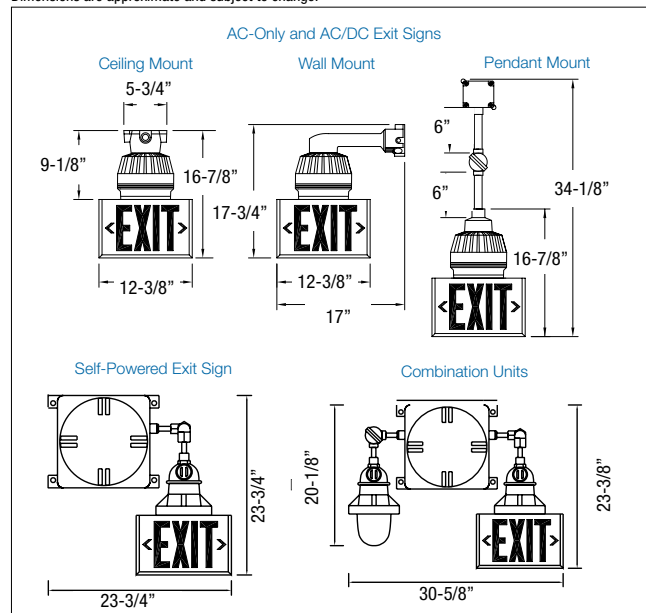**Wattage:** Panel oversized 10-20% greater than total connected load.

AC Input assigned to same breaker and/or phase → Emergency Lighting Unit → DC Output → TS Transfer Panel → Output → To Lighting Loads
AC - Normal Operation
DC - Emergency Operation

Dimensions
Dimensions are approximate and subject to change.

AC-Only and AC/DC Exit Signs

Ceiling Mount — 5-3/4" — 9-1/8" — 16-7/8" — 12-3/8"

Wall Mount — 17-3/4" — 12-3/8" — 17"

Pendant Mount — 6" — 6" — 34-1/8" — 16-7/8"

Self-Powered Exit Sign — 23-3/4" — 23-3/4"

Combination Units — 20-1/8" — 23-3/8" — 30-5/8"

Power Consumption Chart

120/277VAC, 60Hz maximum 0.3/0.15A

Lamp Selection

Lamp Type	Voltage	Power	Lamp Type	Average Life (hours)	Suffix
Quartz Bi-Pin	6V	15W	JC-6V15W	2,000	XX6
Medium Base	12V	25W	25A-12	1,000	XX12
	24V	25W	143A	1,000	XX24
	120V	25W	A19	2,500	AC/20
LED Lamp, Red	120V	5W	–	100,000	XX120

How to Order

SERIES	MOUTING	LAMP TYPE		# OF FACES	LETTERS
EFXP= Exit series	**C**= Ceiling mount **P**= Pendant **W**= Wall	**XX6**= 6V-15W (DC only) **XX12**= 12V-25W (DC only) **XX24**= 24V-25W (DC only)	**AC120**= 120V-25W (AC only) **XX120**= 120V-5W LED	**1**= Single face **2**= Double face **3**= Triple face	**-R**= Red **-G**= Green

Example: **EFXPC(XX6)-2R**

AC VOLTAGE	DC VOLTAGE	SERIES	LOAD WATTAGE	
120= 120VAC **277**= 277VAC	**-6**= 6VDC **-12**= 12VDC **-24**= 24VDC	**-TS**= Transfer circuit	**-25**= 25W **-50**= 50W	**-75**= 75W **-100**= 100W

Example: **120-6-TS-25**

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A Member of the ABB Group

EMERGI-LITE®

TYPE: _____

CATALOG #: _____
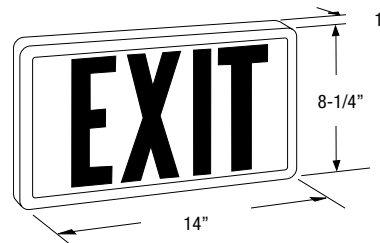
NOTES: _____

EverLite™ Series
Self Luminous Exit

Features

- Legend is constructed of non-glare polycarbonate, with 0.015 thick, open letters, field programmable arrows, and white letters with background colors of red or green. Contrast ratio for both conditions exceeds .5, and meets requirements of UL 924 and NFPA 101
- Constructed of rugged thermoplastic, the EverLite™ Series offers contemporary slim line design with smooth rounded corners, and a vibrant faceplate color. Frame finishes include off-white, black or gray. The entire unit is tamperproof and completely self-contained
- Tritium gas energizes the phosphor-coated borosilicate tubes in the EverLite™ sign. The low energy beta emission of tritium striking the phosphor coating inside the Pyrex® glass tubes causes illumination to be generated
- Signs mount flush to wall or ceiling surfaces, a canopy is not required.
- UL Listed. Complies with NFPA, Life Safety Code and OSHA
- EverLite™ signs are spark free and suitable for use in hazardous, explosive, corrosive, humid or any other harsh environment. Emergi-Lite® will replace free of charge any product in which the luminosity is found to be defective during its specified luminous life, or which falls below specified luminous life

Pyrex® is a registered trademark of Corning Glass.

Accessories (order as a separate item)

DESCRIPTION	SUFFIX
White Pendant	P*-WT
Black Pendant	P*-BK
Gray Pendant	P*-GY
Wire Guard-Wall Mount	WG13-E
Wire Guard-Ceiling Mount	WG5-E
Wire Guard-End Mount	WG15-E

* Specify length in inches (12, 24, 36, etc)

Applications
(For use in harsh or dangerous environments)

- Meets full test specifications of ANSI (American National Standards Institute)
- Meets requirements of National Electrical Codes, Class I and II conditions
- Licensed for distribution by U.S. Nuclear Regulatory Commission

Licenses and Codes

- NFPA Life Safety Code 101
- UL 924
- City of Los Angeles
- State of California
- Council of American Building
- Officials (ICBO, SBCCI)
- OSHA
- USNRC
- ISO 9001

Dimensions
Dimensions are approximate and subject to change.

1"
8-1/4"
14"

Mounting

Single Face Signs

Wall Mount (flush wall or end)   Ceiling Mount (flush ceiling)   Pendant Mount

Double Face Signs

Wall Mount (flush end)   Ceiling Mount (flush ceiling)   Pendant Mount

Harsh

Mines	Spray Booth Areas	Refineries
Off Shore Rigs	Paper Mills	Chemical Plants
Food Processing Plants	Grain Elevators	

How to Order

FRAME COLOR	SERIES	SIGN LIFE	# OF FACES	LEGEND	OPTIONS	NEW
W= Off white B= Black G= Gray	SLX= Series	-10= 10 years -20= 20 years	61= Single face 62= Double face	R= Red G= Green	-AF= Aluminum frame -AFPC= Aluminum frame and Polycarbonate shield	-N= NEW

Example: **WSLX-1061R-AF-N**

EMERGI-LITE®

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