

ELPS Light-Pak™ Emergency Lighting System

Cl. I, Div. 1 & 2, Groups C, D
Cl. I, Div. 1 & 2, Groups B, C, D
(with suffix GB)
Cl. II, Div. 1, Groups E, F, G
Cl. III

Cl. I, Zone 1
Simultaneous Presence
Wet Locations
NEMA 3, 3R, 12

Applications:

ELPS Series Emergency Lighting Systems are used:

- To provide safe, reliable illumination indoors or outdoors to designated areas during failure or interruption of power to the normal lighting system
- In areas made hazardous by the presence of flammable gases and vapors, combustible dusts, or easily ignitable fibers and flyings
- In areas where corrosion, vibration, moisture, dirt, and rough usage may be encountered
- Where required by the National Electrical Code®, the Life Safety Code, or other codes
- In refineries, chemical and petrochemical facilities, grain processing, handling or storage facilities, manufacturing plants, wastewater treatment facilities, and other areas where safe, reliable, hazardous area emergency lighting is needed

Features:

- Compact factory-sealed luminaire assemblies are each furnished with a 12 watt tungsten-halogen lamp and inner reflector for appropriate photometrics in hazardous areas
- Luminaire assemblies are fully adjustable and lockable on two axes to provide flexible and consistent light aiming capabilities
- Luminaire lens ring is threaded for easy relamping and locks in place with hex head set-screw; will not loosen due to vibration
- Ground joint cover with external flange design permits large opening and easy access to internal components; stud bolts in diagonally opposite corners of body ease cover removal and installation
- Neoprene cover gasket seals out moisture for superior protection of internal components against wetness and corrosion
- Lightweight, compact size, and mounting feet ease installation and allow placement in confined areas
- Two 1" NPT drilled and tapped conduit openings, with plugs, are standard, for choice of top or bottom feed
- Factory-installed PUSH-TO-TEST pushbutton enables easy testing of system
- MAIN POWER ON pilot light indicates AC power is being supplied to the battery charger; pilot light jewel is threaded for easy lamp replacement
- Stainless steel drain minimizes moisture collection; stainless steel breather with aluminum cap provides ventilation, minimizes moisture collection

- CID 101 corrosion inhibitor device is provided with each ELPS system to help protect electrical components and connections
- Rugged, long-life, maintenance-free, nickel cadmium battery provides 30 watts of power for the required 1½ hours
- Solid state battery charger for long life and reliable service prevents deep discharge by automatically disconnecting luminaires from battery
- Terminal block facilitates field wiring connections
- Instruction sheet and maintenance record card provided with unit in a protective plastic envelope
- A time delay is standard; time delay is preset at factory for 5 minute delay but can be field set for 5 seconds or 15 minutes, thus allowing HID type lamps time to restrike and reach desired illumination levels
- Solid state battery charger will accept 120, 220/240 or 277 VAC, 50/60 Hz

Certifications and Compliances:

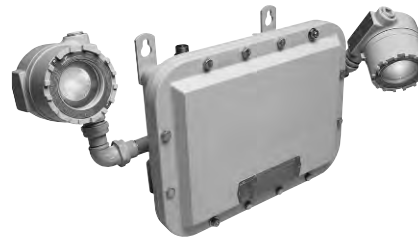
- NEC:
 - Class I, Groups B, C, D
 - Class II, Groups E, F, G
 - Class III
 - Simultaneous Presence
- NEMA: 3R, 12 (ELPS power supply)
- Suitable for wet locations (EVLA fixtures)
- Marine (EVLA fixtures)
- UL Standard:
 - 844 – Electric Luminaire – Hazardous Locations
 - 924 – Emergency Lighting and Power Equipment
 - 1203 – Explosionproof and Dust-Ignitionproof Electrical Equipment
- Life Safety Code:
 - Section 5-9 (Emergency Lighting)
- Suitable for Wet Locations
- NEMA 3, 3R, 12
- Marine

Standard Materials:

- Power supply enclosure and luminaire assembly – copper-free aluminum (less than 0.4 of 1% copper)

Standard Finishes:

- Power supply enclosure and fixture assemblies – powder coat epoxy paint finish



Electrical Ratings:

- Power Supply:
 - Input:
 - 120, 220/240, 277 VAC, 50 or 60 Hz
 - 0.5 Amps Maximum
 - Output:
 - 12 VDC
 - UL listed for 28 watts for 1½ hours at 0° – 40°C
- Luminaires:
 - Voltage: 12 VDC
 - Lamp Type: #789, miniature Tungsten halogen, G4, 2-pin, 14 watt

Options:

Description	Suffix
• Remote mounted lamp head and arm....	EVLA12
• Key operated disconnect switch as part of the ELPS502 emergency light system	S794
• Keyless operated designated disconnect switch as part of the ELPS502 emergency light system	S854

Ordering Information:

Description	Cat. #
• Standard unit with adjustable heads.....	ELPS502†
• Replacement power interior, includes circuit board and battery pack	ELPS K50
• Power supply	ELPS50†
• Lamphead and arm	EVLA12†
• Exit sign, double sided with EVI, red letters.....	ELPS502 EXD
• Exit sign, double sided with EVI, green letters....	ELPS502 EXD GN
• Exit sign, single or double sided with Group B EVA, red letters.....	ELPS502 EXD GB
• Exit sign, single or double sided with Group B EVA, green letters	ELPS502 EXD GB GN
• Exit sign, single sided with EVI, red letters.....	ELPS502 EXS
• Exit sign, single sided with EVI, green letters.....	ELPS502 EXS GN

†Base unit comes standard with Class I, Division 1, Group B.

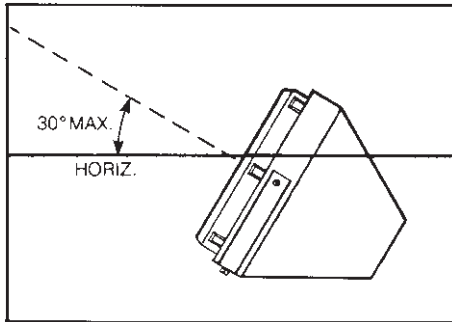
Temperature Performance Data:

Cat. #	Class	T-number
Maximum Ambient Temperature 55°C		
	I	T4A
EVLA12	II*	T3B
	III*	T3B

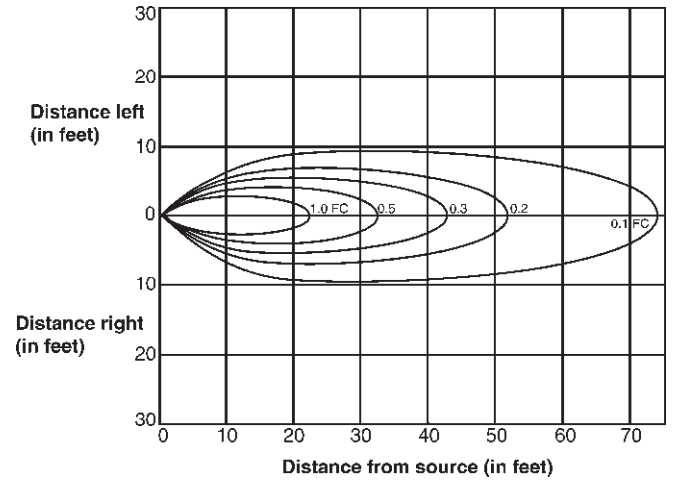
Maximum Ambient Temperature 40°C

ELPS EVI	T3C
	T4
ELPS EVA	T3C
	T4

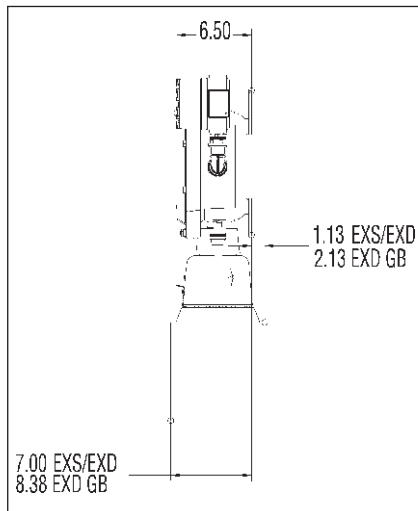
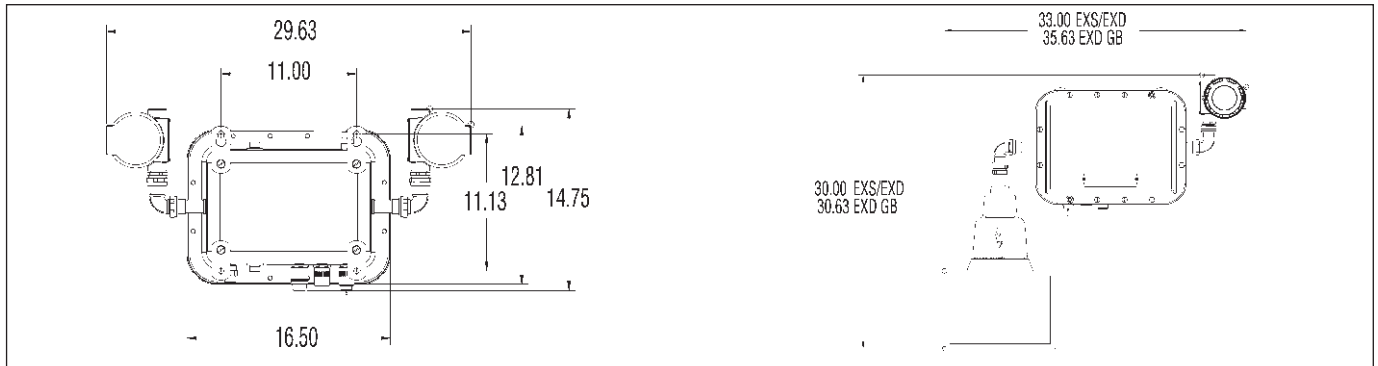
*For Class II and Class III applications, fixtures must not be aimed more than 30° above horizontal (see diagram below).



Photometric Data:



Dimensions In Inches:



Unit Net Weights:

- ELPS502 complete emergency lighting system – 50 lbs.
- ELPS50 power supply – 40 lbs.
- EVLA12 luminaire assembly – 5 lbs.

Status Indication:

LED Status	Condition	Meaning of the Indication
	No light	AC power is removed from the circuit
•	Steady light (no blinking)	Fully charged
•	Light blinks once	Charging
••	Light blinks twice	Battery failure
•••	Light blinks three times	Circuit failure
••••	Light blinks four times	Lamp failure