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EXHL-HL-LE1-LV

12W Explosion Proof Handheld LED Light Fixture - 1320 Lumens - Low Voltage - 5" Polycarbonate Handle

Product ID: 148820

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EXHL-HL-LE1-LV Explosion Proof LED Light Fixture

Lamp Type: LED
Dimensions: 8"L x 6"W x 14"H
Watts: 12W
Voltage: 12V DC or 24V DC
Lumens: 1,320
Luminous Efficacy: 110 Lm/W
LED Light Color: 6000K - White
LED Life Expectancy: 50,000 hours
Lighting Configuration: 10° Spot or 40° Flood
Spot Beam: 800`L x 140`W
Flood Beam: 300`L x 225`W
Ambient Operating Temp Range: -40°C to +60°C
Housing Material: Aluminum
Housing Color: Powder Coated - Grey
Lens Material: Polycarbonate
Mounting: 5" Polycarbonate Handle
Wiring: -

Ratings/Approvals

Listed for United States, Canada, Europe, Asia
Class I, Div. 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Div. 1 & 2, Groups E, F ,G
Class III, Div. 1 & 2
NEMA Type 3, 4, 4X, 7 (B,C,D), 9 (E,F,G)
ATEX Ex II 2 G / D
IECEx db IIC Gb
IECEx tb IIC Db IP66

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

The EXHL-HL-LE1-LV from Larson Electronics is an Explosion Proof LED

Light Fixture that is a low voltage, handheld lighting solution for hazardous locations. This 12-watt unit provides 1,320 lumens of white light with a color temperature rating of 6,000K. The explosion proof LED fixture also features a 5" ergonomic handle for convenience and comfort during operation.

The EXHL-HL-LE1-LV produces 1,320 lumens of high-intensity LED light for illumination within hazardous areas and potentially explosive work environments. The low voltage unit is available in two lighting configurations: spot or flood. The spot configuration features a 10° beam that measures 800`L and 140` W. The flood configuration throws a 40° beam that measures 300`L and 225`W. With a high color-temperature rating of 6,000K the handheld LED fixture offers improved detection of dangerous elements, obstructions and abnormal conditions in the surrounding area.

This explosion proof LED light from Larson Electronics is rated NEMA Type 3, 4, 4X, 7 (B,C,D) and 9 (E,F,G). The luminary is designed to withstand the rigors of demanding environmental and operating conditions while remaining lightweight and easy to use. These units can operate in temperatures of -40° Celsius to 60° Celsius, are waterproof to 3 meter and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are unbreakable polycarbonate. The LEDs offer inherent LED resistance to shocks and vibrations.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or "duty cycle" accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED`s core temperature. This flash rate is too fast to detect with the human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.

Applications: Hazardous locations, inspections, detailed tasks, confined spaces, oil and gas, agricultural facilities, grain storage, paint spray booths, woodshops, manufacturing plants, outdoor locations and more.

High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion. resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MH.

Superior LED Benefits

1. 50,000+ hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.

5. Retains 70% lumen output after 50,000 operating hours.
6. Powder coated aluminum fixture body.
7. 5" ergonomic handle included.
8. Low profile - Lightweight.
9. 1,320 lumen output from 12 watts.

4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off - No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

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EXHL-HL-LE1-LV

Product ID: 148820

Export Control Classification Number (ECCN): EAR99

Options:

EXHL-HL-LE1-LV-Beam Config-Voltage

Example: EXHL-HL-LE1-LV-SP-12VDC

Beam Config	
10° SPOT	-SP
40° FLOOD	-FL

Voltage	
12V DC	-12VDC
24V DC	-24VDC

Links (Click on the below items to view):

- **SpecSheetFrench**
- **SpecSheetRussian**
- **SpecSheetSpanish**
- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**