Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EPLJH-70LED-1224I-100

50W EXP LED Light - 120-277V Stepped Down to 12 V DC - 6,250 Lm - J-Hook Mount - C1D1 - 100' 16/3 SOOW - GEN Plug

Product ID: 50584

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.

EPLJH-70LED-1224I-100 Portable Explosion Proof LED Tank Light
Lamp Technology: LED
Dimensions: -
Weight: 55 lb
Voltage: 120-277 V AC, 50/60 Hz Stepped Down to 12 V DC
Total Watts: 50 Watts
Lamp Watts: 50 Watts
Total Lumens: 6,250
Lamp Lumens: 6,250
Luminous Efficacy: 125 Lm/W
Beam Lux: 8500 @ 1 Meter, 1250 @ 3 Meters
Lamp Life Expectancy: 60,000+ hrs
Color Temperature: 5000K, 4500K, or 3000K
Light Color: Cool White, Neutral White, or Warm White
Color Rendering Index: >75 CRI
Beam Angle: 60°, 125° or 140°
Lighting Configuration: Flood
Power Efficiency: >95%
Power Factor: 0.992
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Ingress Protection Rating: IP67
Housing Material: Copper Free Cast Aluminum
Housing Finish: Epoxy Powder Coated - Grey
Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone

Ratings/Approvals
Listed for United States and Canada
Class I, Divisions 1 & 2, Groups C and D
Class II, Divisions 1 & 2, Groups E, F and G
Class III, Divisions 1 & 2
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to C22.2 No. 137 Rev 2009
NRTL Certified to C22.2 No. 250.0
NRTL Certified to C22.2 No. 30-M-1986 Rev 2012
T5 Temperature Rating
Paint Spray Booth Approved
IEC 60529 Tested
IP67 Rated Waterproof
Multiple Driver Banks
80% Lumen Retention after 60,000 Hours
Factory Sealed Light Fixture
3.5kV Surge Protection (NTC Circuit)
Encapsulated Inline Step Down Transformer

Mount Material: Non-Sparking Aluminum
Mount Finish: Powder Coated - Gloss Blue
Mounting: Adjustable Ladder/Scaffold Mount
Wiring Hub: 3/4" NPT
Wiring: 100' 16/3 SOOW Cord Terminated w/ General Area Straight Blade Plug
Cord Cap Options: 5-15, 6-15, 5-20, 6-20, L5-15, L6-15, L5-20, L6-20, BS1363, Schuko, or Pigtail

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

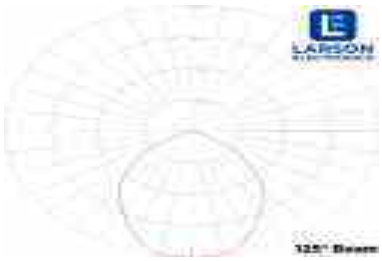
The EPLJH-70LED-1224I-100 from Larson Electronics is a Portable Explosion Proof LED Tank Light with Scaffold/Ladder Mount that produces 6,250 lumens of light capable of illuminating an area 3,500 square feet in size. This adjustable Cree LED unit is designed for maximum portability and durable, versatile operation. This powerful LED fixture comes attached to an aluminum rail/ladder mount bracket that allows operators to easily mount this unit to ladders, handrails, catwalks and other similar structures. The EPLJH-70LED-1224I-100 is equipped with an encapsulated inline transformer.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY
The EPLJH-70LED-1224I-100 Class I Divisions 1 & 2 and Class II Divisions 1 & 2 portable explosion proof ladder bracket mounted light fixture provides 6,250 lumens of high quality light output covering a work area of 3,500 square feet. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. A special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention.
This explosion proof LED light fixture is paint spray booth listed, IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The cast aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronics.
This portable LED fixture features an integrated LED light head that unit produces a brilliant flood pattern of light and is ideal for illuminating enclosed areas and hazardous locations where flammable vapors, gases and dusts may be present. This portable explosion proof LED tank light features an adjustable J-bracket that can be mounted to ladders, scaffolding and other similar object and is equipped with a quick change mount. The quick change mounting solution offers versatility and flexibility for operators in the field.
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.
LED Drivers: Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of electronic LED drivers. These internal drivers provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the

electronic drivers allow the Iron X to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights.
The explosion proof LED light fixture features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. With the Iron X series of explosion proof lamps from Larson Electronics, each LED fixture contains six individual LED boards configured in a series of banks. Each bank contains two LED on a single board with an individual driver. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.

Click Photos to Enlarge



60° Beam Angle



125° Beam Angle



140° Beam Angle

Beam Angles: When used as a portable lighting solution, the varying beam angles are each individually ideal for several environments. The 60° beam provides the most intense beam of the three options. It is perfect for narrow, confined spaces and is ideally suited for tank cleaning purposes. It offers focused light to provide ample illumination to tight work spaces and other environments. The 125° beam offers a more diffused source of light that is also less intense in brightness. It is a great general area work light and performs well when used for outdoor illumination. We also offer a 140° beam configuration. The 140° beam offers a very wide lighting pattern and is ideal for situations where lighting distance is not a concern, but illumination of a wider area and even light distribution is. The 140° beam is great for situations that call for working in close proximity to lights such as in a paint booth.
This unit produces 6,250 lumens with a color temperature of 5000K standard and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. We also offer both 3000K warm white and 4500K natural white color temperature options (longer lead times may apply for non-standard temperatures). This lamp uses Cree LED units that have been chosen for their high lumen per watt ratio and extreme longevity. These Cree LEDs generate a robust 116.67 lumens per watt effective lumen output and have a 80% lumen retention at 60,000 hours, giving them better efficiency and operational life than traditional light sources.

Field Serviceability: This explosion proof LED light fixture is field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with the Iron X series with field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.
Voltage: This explosion proof LED light is equipped with an encapsulated inline transformer that steps down 100-277 V AC, 50/60 Hz to the 12 V DC required to run the light without modifications to the fixture. We also offer an additional 347-480V high voltage, 125-250V DC, and 0-10V dimmable versions of this explosion proof LED light fixture.

Click Photos to Enlarge



5-15 Straight Blade Plug
15 Amp / 125V Rated



L5-15 Twist Lock Plug
15 Amp / 125V Rated



L6-15 Twist Lock Plug
15 Amp / 250V Rated



UK BS1363 Straight Blade Plug
13 Amp / 250V Rated / Internal Fuse



Intl Schuko 2-Pin Plug
16 Amp / 250V Rated / Grounded



Flying Leads / Pigtail Wires

Wiring & Plug: This explosion proof portable lighting system is equipped with 100 feet of 16/3 chemical and abrasion resistant SOOW cord from the light to the encapsulated inline transformer. An additional 16/3 SOOW whip extends from the transformer and is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include standard 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.

PLEASE NOTE: While the light heads themselves are explosion proof, general area cord caps are NOT explosion proof. Therefore, plug connections must be made and be located OUTSIDE of hazardous areas.

Additional configurations include explosion proof cord caps, weatherproof cord caps, shore power cord caps, weatherproof NEMA 3R/4 in-line step-down transformers, and explosion proof NEMA 7/9 in-line step-down transformers.

Mounting: The lightweight aluminum ladder bracket with adjustable J-hook bottom allows operators to securely mount the light to any rail, ladder or scaffolding. The J-bracket can adjusted 26 inches to 43 inches to allow mounting to ladders, scaffolds and similar structures of various sizes. The center mount pole is adjustable and can be elevated to three feet above the mounting bracket, helping to improve coverage and reduce glare. This explosion proof LED light is comprised of a LED light head mounted to an aluminum bracket with an adjustable J-shaped top and bottom hooks that enables operators to securely mount the light to any ladder or scaffolding. Lamp adjustment is via an adjustable yolk that allows the operator to position the lamp angle through a full 90 degrees of vertical adjustment. All hardware on this unit is non-sparking/corrosion resistant.

Often referred to as simply a "tank light," this unit is considered universal due to its ability to be passed through any conventional manhole such as those found in petrochemical containers and ship storage tanks. Transferring the unit through manholes consists of simply removing the light head from the base, passing the light head and base through the manhole separately, and then reassembling the unit once inside.

Accessories: Larson Electronics offers a variety of accessories to add to the versatility and flexibility of this explosion proof LED light. This includes blast shield, diffuser, overspray covers, and additional mounts. Please see the related items section for accessories.

Suggested Applications: The EPLJH-70LED-1224I-100 is approved for use within

environments where flammable or combustible gases, vapors, dusts, fibers, and flying exist or stand the potential to exist, and is ideal for a wide variety of applications. Applications include but not limited to aircraft maintenance, alcohol processing, aerospace, chemical manufacturing, coke processing, cold storage, compressed natural gas (CNG) facilities, cranes, cryogenics, distilleries, food processing (with food grade gasketed polycarbonate lens: EPL-HB-150LED-RT-188), fuel storage, gas processing plants, grain processing, laboratories, liquefied natural gas (LNG) facilities, liquid propane gas (LPG), manufacturing, marine vessels, methane production, mining, offshore, oil drilling rigs, oil refineries, paint spray booths, paper processing, petrochemical, pharmaceuticals, power plants, production refineries, sand blast cabinets, sewage and septic tanks, shipyards, solvent and cleaning areas, storage facilities, tank farms, tankers, textile, washdown areas, waste treatment plants, and woodworking. Click here to read the NEC description for explosion proof and hazardous locations.

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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EPLJH-70LED-1224I-100

Product ID: 50584

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPLJH-70LED-1224I-100-Cord Cap-Beam Angle-Color Temperature

Example: EPLJH-70LED-1224I-100-5.15-60B-50K

Cord Cap	
5-15	-5.15
6-15	-6.15
5-20	-5.20
6-20	-6.20
L5-15	-L5.15
L6-15	-L6.15
L5-20	-L5.20
L6-20	-L6.20
BS1363	-BS1363
SCHUKO	-Schuko
PIGTAIL	-Pigtail

Beam Angle	
60°	-60B
125°	-125B
140°	-140B

Color Temperature	
5000K	-50K
4500K	-45K
3000K	-30K

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **DXF (2D CAD Model)**
- **STEP File (3D CAD Model)**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **Video1**
- **Video2**
- **Video3**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**