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

EPL-MBC-150LED-RT-100C-XEMG-10C

150W Explosion Proof LED Flood Light - 21,000 lms - Remote Battery Backup, Magnetic Mount

Product ID: 279862

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.

EPL-MBC-150LED-RT-100C-XEMG-10C Explosion Proof LED Flood Light

Listing: NRTL Listed for United States and Canada
Lamp Type: Cree LED
Dimensions: 14"H x 16"W x 5"D
Weight: -
Voltage: 100-277 Volts AC, 50/60Hz
Total Watts: 150W
Total Lumens: 21,000 lms
Luminous Efficacy: 140 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5600K, 5000K, 4500K, 4000K, 3500K, 3000K, 2700K, or 6500K
Color Rendering Index: >75 CRI
Beam Angle: 60°, 125°, or 140°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Emergency Mode: 90+ Minutes at 150W
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Housing Material: Copper Free Cast Aluminum
Housing Finish: Epoxy Powder Coated - Grey
Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone
Mounting: Ceiling/Flat Surface Mount - (6) 200lb Magnets and Adjustable Frame
Wiring: 100` 16/3 SOOW Cable to Battery, 10` Terminated w/ General App Cord Cap

Ratings/Approvals

Class I, Divisions 1 & 2, Groups C and D
Class II, Divisions 1 & 2, Groups E,F,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
LEL Approved
Multiple Driver Banks
80% Lumen Retention after 60,000 Hours
Factory Sealed Light Fixture
3.5kV Surge Protection (NTC Circuit)

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

Cord Cap Options: 5-15 Straight, 6-15 Straight, L5-15 Twist, L6-15 Twist, UK BS1363, Intl. Schuko, Pigtail

E-mail: sales@larsonelectronics.com

The Larson Electronics EPL-MBC-150LED-RT-100C-XEMG-10C Explosion Proof LED Flood Light produces 21,000 lumens of output and is capable of illuminating an area of 9,500 square feet. This adjustable Cree LED light features a remote mounted emergency backup battery that powers the light for 90+ minutes in the event of an outage. A heavy-duty A-frame with a magnetic base enables temporary mounting on surfaces, walls or ceilings.
The EPL-MBC-150LED-RT-100C-XEMG-10C explosion proof LED light is equipped with an emergency battery backup, which will power the light for 90+ minutes at 150 watts when power is unavailable. During use, the unit provides 9,500 square feet of work area coverage with 21,000 lumens of light output. This LED light generates a wide flood pattern that is ideal for illuminating large workspaces and job sites. The light is designed for heavy-duty use in demanding conditions including emergency services, mining, construction, marine, and industrial operations where durability and reliability is critical.



Click Photo to Enlarge



Click Photo to Enlarge

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 EPL-MBC-150LED-RT-100C-XEMG-10C 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 EPL-LED-150W-RT 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 cater to specific activities and 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 in 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. The 140° beam offers a very wide lighting pattern and is ideal for situations where lighting distance is not a concern, and requires illuminating a wider area with even light distribution. 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 21,000 lumens with a color temperature of 5600K 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 140 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.

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

This LED light is equipped with 100` of 16/3 SOOW oil, chemical, abrasive, and water

resistant cable, which is connected to the emergency battery backup which must be installed outside of the hazardous area. An additional 10 feet of cord connected to the backup battery is terminated in a general application cord cap, which is combined with adjustability offered by the LED light head, and provides ample length for optimal coverage of the workspace. 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.

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 EPL-HB-150LED-RT 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.

Energy Consumption Comparison

	Metal Halide	LED
Wattage	400 watts	150 watts
Amp Draw @ 120V AC	3.83 amps	1.25 amps
Amp Draw @ 220V AC	2.09 amps	0.68 amps
Amp Draw @ 240V AC	1.92 amps	0.63 amps
Amp Draw @ 277V AC	1.66 amps	0.54 amps
Amp Draw @ 12V DC	38.33 amps	12.5 amps
Amp Draw @ 24V DC	19.12 amps	6.25 amps
Lamp Life Expectancy	20,000 hours	50,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	$241.78	$78.84

Each LED light fixture has the potential to save $150.00+ per year in electricity alone, not including maintenance costs, operational downtime, reduced productivity, HVAC loads, or carbon footprint. When retrofitting an entire facility with 100s of light fixtures, the return on investment of LED over metal halide becomes evident.

Voltage: This explosion proof LED light is universal voltage capable and can be operated with 100-277V AC, 50/60 Hz without modifications to the fixture. For an additional cost, a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 volts is also available. 18-48V AC/DC voltage models are available for network systems and marine vessels. We also offer an additional 347-480V high voltage, 125-250V DC, and 0-10V dimmable versions of this explosion proof LED light fixture.

Mounting: The EPL-MBC-150LED-RT-100C-XEMG-10C features an adjustable magnetic A-frame. This mounting solution has six, 200-lb grip magnets on the base, which provide a total of 1,200 lbs of grip, and allows operators to mount the unit to ceilings, walls, and any flat metallic surfaces. Users simply attach the magnetic mounting base to the desired surface, then hang the lamp assembly from the base.

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.

Suggested Applications: The EPL-MBC-150LED-RT-100C-XEMG-10C 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-MBC-150LED-RT-100C-XEMG-10C), 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.

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

Frequently Asked Questions (FAQ)

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

EPL-MBC-150LED-RT-100C-XEMG-10C

Product ID: 279862

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-MBC-150LED-RT-100C-XEMG-10C-Beam Angle-Color Temp-Cord Cap

Example: EPL-MBC-150LED-RT-100C-XEMG-10C-60B-56K-5.15

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

Color Temp	
5600K	-56K
5000K	-50K
4500K	-45K
4000K	-40K
3500K	-35K
3000K	-30K
2700K	-27K
6500K	-65K

Cord Cap	
5-15 STRAIGHT	-5.15
6-15 STRAIGHT	-6.15
L5-15 TWIST	-L5.15
L6-15 TWIST	-L6.15
UK BS1363	-BS1363
INTL SCHUKO	-SCHUKO
PIGTAIL	-PIGTAIL

Links (Click on the below items to view):

- **HigResPic1**
- **Video1**
- **Video2**
- **Video3**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**