Larson Electronics LLC
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EPL-UV-20W-G2

Explosion Proof Black Light - 365nm UV cut off lens - Class 1 Div 1 and Class 2 Div 1 - Generation 2

Product ID: 47067

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



Image: EPL-UV-20W-G2

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-UV-20W-G2

Lamp Type: 20 Watt HID Bulb
Dimensions: 11.5 "-L
Watts: 20
HID Life Expectancy: 2500 hours
Lumens: 1200 Without UV Lens
Lighting Configuration: High UV Output Bulb/365Nm UV Lens
Materials: Aluminum Housing
Weight: 1.9lbs.
LUX: With Clear Lens =:182,000
LUX: With UV Lens: 821
Radiant Intensity: 45 mW/cm2 @ 2" from lens; 29 mW/cm2 @ 5" from lens
Charging Unit: 100/240VAC 50/60Hz w/overcharge protection, LED indicator
Lens Temp: 186 f
Head Temp: 90 f
Battery: 2600mAh Lithium Ion Battery
Run-Time: 90 Minutes

Approvals

Class 1, Division 1, Groups A, B, C, D
Class 1, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups E, F, G
IP68 Waterproof to 3 Meters
T4A Temperature Rating

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
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Buy American Compliant

The Larson Electronics EPL-UV-20W-G2 Hazardous Location Approved UV flashlight has a Class 1 Division 1 Groups A-D approval and produces a beam in the ultra violet spectrum capable of reaching over 200 feet. This model features an upgraded bulb for a more powerful UV output.

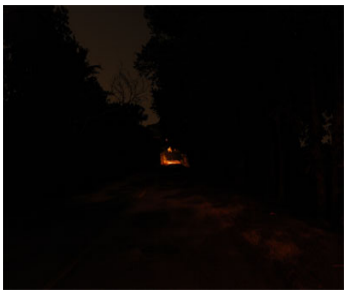
This Generation 2 UV HID flashlight features a newly designed bulb, 365 Nm UV cutoff lens, and a 90 minute run time on a single charge of its waterproof 2600mAh Lithium Ion battery pack. A single 20 watt high UV output HID bulb powered by an internal ballast is combined with a 365 Nm UV cutoff lens to produce a UV beam capable of reaching over 200 feet in length. This flashlight is IP68 rated waterproof, making it capable of withstanding submersion under pressure without damage. The durable aluminum body has a black anodized coating to provide durable protection for this units` internal electronics and an aesthetically pleasing appearance.

With this Generation 2 model, we use a newly designed bulb that produces 485mW/meters_squared versus the 131mW/meters_squared with the cut off lens. The beam on the Generation 2 model is effective to well over 200 feet compared to its predecessor that only produced a beam 35 feet in length.

This HID flashlight includes a hard carrying case, waterproof battery and separate battery charging stand, AC charger (US/International compatible), and Rubber lens/end cap protector. A clear lens is also included to allow this unit to be used as a normal flashlight. With the clear lens, this unit has a 1200 lumen output and produces a beam up to 2500 feet in length.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge







The Battery can be removed from the flashlight and charged outside the hazardous area.

This flashlight is equipped with a UV 365nm cut off lens and is commonly called an explosion proof black light. This UV light produces 821 LUX at the lens and 2.85 mW/cm squared, as measured 15 inches from the lens. The design of this flashlight is ideal for specific types of inspection work within paint spray booths for the aerospace industry as well as specialized

military and law enforcement applications.

This hazardous location approved flashlight is UL Certified:
Class 1, Division 1, Groups A, B, C, D
Class 1, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups E, F, G

A brief note about High Intensity Discharge (HID) flashlights:

Incandescent flashlights have a bulb with a filament, much like the common household light bulb. A consistent amount of current is fed to the bulb. The filament glows and light and heat are produced. The filament glows because it is a poor conductor of electricity. Eventually the filament breaks due to vibration or diminished capacity. HID flashlights have a globe of gas that contains bounded by electrodes. A spark jumps across the electrodes igniting the gas. Initially, the amount of current required to ignite the gas is higher. Once the gas is lit, much less current is required to keep the gas burning.

A device called a ballast controls the amount of current sent to the bulb. HID flashlights use about 50% less energy than incandescent bulbs, which means longer battery life than halogen incandescent bulbs. More importantly, HID lights have no filament to break. Thus, the HID bulb life is around 2500 hours, compared to several hundred hours of the filament based incandescent bulb. The HID bulb is more efficient, so it produces much more light with less energy over a long period of time. The trade off, however, is that the ballast that sends current to the bulb is an expensive addition, increasing the cost of the flashlight. The bulb itself is also significantly more expensive than halogen bulbs.)

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Frequently Asked Questions (FAQ)

There are no Faqs



Image: EPL-UV-20W-G2 This photo displays the EPL-UV-20W-G2 as viewed from the front while powered on.



Image: EPL-UV-20W-G2 This photo displays the EPL-UV-20W as viewed from behind.

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Image: EPL-UV-20W-G2 This photo displays all components included with the EPL-UV-20W, carrying case also included.

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Image: EPL-UV-20W-G2 This photo displays a side view of the EPL-UV-20W.

EPL-UV-20W-G2

Product ID: 47067

Export Control Classification Number (ECCN): EAR99

Options:

EPL-UV-20W-G2-Charger
Example: EPL-UV-20W-G2-120V

Charger	
120V	-120V
INTL	-INTL

Links (Click on the below items to view):

- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/47067.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/47067.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/47067.PDF)
- **Spectrum Curve (Wavelength Graph)**(https://www.larsonelectronics.com/images/product/SpectrumChart/47067.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com/images/product/NECCert/47067.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/47067.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/47067.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/47067.JPG)
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- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/47067.JPG)
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- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/47067.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/47067.JPG)
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- **HigResPic10**(https://www.larsonelectronics.com/images/product/HigResPic10/47067.JPG)
- **Video1**(https://www.youtube.com/watch?v=HPVo5J2djwM)
- **Video2**(https://www.youtube.com/watch?v=E1h71EPk1TA)
- **Video4**(https://www.youtube.com/watch?v=kqVBPI9B704)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)