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Explosion Proof Black Light - 365nm UV cut off lens - Class 1 Div. 1 Groups A,B,C,D - Generation 2

Part #: EPL-UV-20W-G2

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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), DC charger (vehicle charger), 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.

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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, and D. This means that this light can be safely used around flammable gases and explosive materials, including:

Class I: locations are areas where flammable gases may be present in sufficient quantities to produce explosive or flammable mixtures.
Div 1: - area where explosive or flammable materials usually exist under normal conditions
Group A: Atmospheres containing acetylene.
Group B: Atmospheres containing hydrogen, gases or vapors of equivalent hazard such as manufactured gas.
Group C: Atmospheres containing ethyl-ether vapors, ethylene, or cyclo-propane.
Group D: Atmospheres containing gasoline, hexane, naptha, benzene, butane, propane, alcohol, acetone, benzol, lacquer solvent vapors, or natural gas.

Groups E, F, & G, which include the various dusts are still being tested.
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 contain two electrodes and gases bounded by a glass bulb. 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.)
Specifications / Additional Information

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

Charging Unit: 100/240VAC 50/60Hz w/overcharge protection, LED indicator

Lens Temp: 186 f

Head Temp: 90 f

Battery: 2600mAh Lithium Ion Battery

Approvals

Class 1, Division 1, Groups, A, B, C, & D

IP68 Waterproof to 3 Meters

T4A Temperature Rating

Special Orders- Requirements

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