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

FRL-EMY-18-100W-FUVC-KT-120V-SPF

100-Watt Far UV 222nm Shatterproof Lamp Kit, 18" Bulb, 5500uW Output Far UVC, Lamp w/ 120V Ballast, Skin Safe

Product ID: 272641

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.

FRL-EMY-18-100W-FUVC-KT-120V-SPF UVC Sanitation Lamp w/ Ballast - Ozone Free	Ratings/Features
Lamp Technology: Far UV-C Excimer	222nm Germicidal Light
Dimensions: 18"-L x 1.85"-OD (Glass OD: 1.58")	Kills 99% of Viruses and Other Germs
Weight: < 1 lb	Mercury Free Lamp
Ballast Dimension: -	Instant-On Lamp, No Warm Up Time
Ballast Weight: -	More Efficient & Effective than UVC Lamps
Voltage: Ballast Dependent (Ballast Included)	No Harmful UVC Emissions
Frequency: Ballast Dependent (Ballast Included)	No Block Off/Bandpass/Cutoff Filters) Needed
Total Watts: 100W	Skin Safe & Eye Safe
Total UV Output: -	Ozone Free
Effective UV Intensity: 5500 uW/cm2 @ lamp lens	Low Heat Output
Expected Lifespan: 6,500+ Hours	EPA Reg. No 98409-1
UV Wavelength: Far UV-C, 222nm	EPA Est. No. 98409-TX-1
Lamp Type: Excimer	Shatterproof Coating on Bulb
Lamp Base: -	
Replacement Lamp: FRL-EMY-18-100W-FUVC	
Replacement Ballast: FRL-EMY-18-100W-FUVC-RBALL	
Lamp Mounting Bracket: FRL-EMY-XX-FUVC-SP0118-R4	
Beam Angle: 360º	
Light Configuration: Flood	
Remote Driver: Included	
Ballast/Power Supply Voltage: 120 V AC, 50/60 Hz	
Amps: -	
Ambient Operating Temp Range: -50°C to +80°C	**Special Orders - Special Requirements**

Materials: KrCl Gas Mixture, Polymer End Caps, Glass Lens

Lens Material: Quartz Glass

Mounting: End Cap Lamp Clips (Hardware not included)

Wiring: +/- Pigtails

Cord Cap: -

PLEASE NOTE: UV-C light can cause temporary or permanent loss of vision, and temporary acute redness or ulceration (mild to severe sunburn) to exposed skin. To prevent exposure, do not operate the device in any application that allows UV-C light to be visible during operation. NEVER LOOK DIRECTLY AT THE BULB OR DISINFECTING TARGET ZONE. DO NOT touch bulb with bare hands. The oils in your skin will damage the lamp. Fingerprints will result in reduced performance and significantly reduce the lifespan of the lamp unless they are removed with alcohol. Please read instruction manual for UV safety requirements before operating.

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 FRL-EMY-18-100W-FUVC-KT-120V-SPF from Larson Electronics is a UV Excimer Light that can disinfect 99% of viruses, bacteria, mold, and spores in facilities and on surfaces. This ozone-free unit offers 222nm UV-C output and comes with a ballast. Considered to be eye and skin safe, the far-UV lamp offers instant start and cool operation. The ballast/power supply, which operates on 120 V AC, 50/60 Hz, is included with the lamp. The Far UV excimer lamp features a shatterproof coating to prevent exposure to chemicals and glass going everywhere in the event a lamp breaks.

Please note: This product produces UV light. Make sure to follow all safety guidelines and protocols found in the user manual. UVC light in the proper setting kills up to 99.9% of viruses, mold, spores, and bacteria. Click here to learn more about UVC and the coronavirus*

The FRL-EMY-18-100W-FUVC-KT-120V-SPF is a powerful sanitation solution that has eye and skin safe features for industrial sites and commercial facilities. This 100-watt excimer lamp offers 5500 uW/cm2 UV intensity at 222nm UV wavelength. The ozone-free light has an expected lifespan of 10,000+ hours and emits a flood beam pattern with 360 degrees of coverage. This UV light is protected by a quartz glass. The far-UV light can disinfect over 99% of viruses, bacteria, mold, and spores. Adhering closely to recommended exposure time for viruses, multiple lights can be purchased to cover larger areas quicker.

This lamp is considered to be eye and skin safe (the 222nm UV wavelength cannot penetrate the eyes and skin of humans), making applications suitable in occupied areas requiring sanitation. Designed for cool operation, the instant-start light is efficient at eliminating harmful microbes, viruses, and bacteria at low doses.

Benefits of Excimer Far UV Lamps: When it comes to Far-UV lamps, there are few options in the skin-safe and eye-safe wavelengths. Similar to LED lamps, excimer lamps provide "instant-on" startup, and do not require a warmup period; excimer lamps are at 100% peak output when switched on. Most lamp technologies that do product UVC use mercury in the manufacturing process. Excimer lamps have ZERO mercury, making them more environmentally friendly. Excimer lamps can be tuned to specific wavelengths (222nm wavelength for this product) and produce no harmful UVC radiation or wasteful visible light and infrared light. Excimer lamps are more efficient at converting electricity (input power) into UV irradiance, which reduces the heat output from excimer lamps over other technologies. Fluorescent, amalgam, low-pressure mercury, and high-pressure mercury lamps do not product as tight of a wavelength and generate more heat, both of which wastes energy for the UV sanitation application. Excimer lamps have a higher average UV irradiance per square inch and have a higher photon emission over other lamp technologies. Being safe for use in occupied areas, instant-on power, mercury free, higher UV output, and low heat output make Far-UV excimer lamps the preferred choice for UV sanitation and disinfecting applications.

Voltage: The FRL-EMY-18-100W-FUVC-KT-120V-SPF is compatible with 120 V AC, 50/60 Hz. Cooled by natural air, the ballast is included with the far-UV lamp. We also offer 208V, 220V, 240V, 277V, 347V, and 480V AC models, and 12V, 24V, 48V, 125V, and 250V DC models upon request.

Wiring: The FRL-EMY-18-100W-FUVC-KT-120V-SPF is designed for hard wire applications and includes flying leads for power connections to the remote mounted ballast. We can provide corded models with factory installed cord and cord cap upon request.
Mount: Mounting brackets for the FRL-EMY-18-100W-FUVC-KT-120V-SPF are available but are sold separately. The compatible mounting brackets can be found here: FRL-EMY-XX-FUVC-SP0118-R4.
Note on Environment: Sunlight and visible light fixtures do not impact the effectiveness of the disinfecting on this UVC sanitation product. Metal halide, high pressure sodium, fluorescent, and LED light fixtures can be left on. The UV radiation emitted from this product is not disrupted by any type of lighting in the environment. Put simply, NO it DOES NOT need to be dark in the area you plan to disinfect. Please see user manual for additional safety information.
Suggested Applications: Sanitation, disinfection, commercial locations, industrial parks, medical centers, labs, manufacturing and semiconductors; kills 99% of viruses, bacteria, mold, and spores.
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



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



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




H/V out
S/N:

FRL-EMY-18-100W-FUVC-KT-120V-SPF

Product ID: 272641

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Beam Information (Coverage, Datafile)**
- **Catalog Page - Product Series**
- **Certificate 4, Misc**
- **Lighting Facts & Information**
- **Operations Manual**
- **Spectrum Curve (Wavelength Graph)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**