

# FUSION UV SYSTEMS, INC.

## Model F600S



The F600S UV lamp system from Fusion UV Systems is a major advance in lamps for UV curing.

A modular 10-inch lamp system, the F600S system increases UV output from previous system benchmarks of 300 to 400 watts/inch to 600 watts/inch, with no reduction of warranted bulb life.

This higher power output will increase UV curing effectiveness, depending upon the particular materials employed in the process.

The system's increased power stems from a number of technical enhancements to the I600M irradiator and the P600M power supply.

The P600M is powerful as well as intelligent, thanks to the addition of microprocessor control. In operation, the unit provides a liquid crystal display which offers continuous status updates as well as instant system diagnostic information.

Irradiators can be placed end-to-end to create a lamp system of almost any length, providing high uniformity for wide applications.

The F600S UV lamp system is a product of Fusion UV Systems' continued commitment to the development of new and improved ultraviolet curing systems that meet today's growing demands for higher production speeds, increased profitability, enhanced reliability, and new UV curing applications.

## SPECIFICATIONS

### Irradiator Model I600M

#### Lamp Power (input):

- Full power: 600 w/inch (240 w/cm); 6000 watts total.
- Low power: 400 w/inch (160 w/cm); 4000 watts total.

**Dimensions:** 17.3" (438 mm) high x 8.2" (208 mm) wide x 10.5" (267 mm) long.

**Weight:** 30 lbs. (14 kg).

**Cooling:** Minimum 290 cfm (8.2 m<sup>3</sup>/min) of filtered air at 7.4" water gauge (1.84 kPa) at the inlet (6.4" wg, 1.6 kPa inside the irradiator housing). Supplied by external blower.

**Reflector Geometry:** Elliptical. Focus 2.1" (53 mm) from irradiator face.

**Substrate Location:** 2.1" (53 mm) from irradiator face for maximum irradiance.

**Mounting Position:** Irradiator can be placed end-to-end to create a lamp of almost any length. Operates in any position.

**Footprint:** (mechanical) 10.5" (267 mm) x 8.2" (206 mm).

**Light Shield:** Available upon request to customer specifications.

### Power Supply Model P600M

**Dimensions:** 8.7" (221 mm) high x 18.4" (467 mm) wide x 29.7" (754 mm) long.

**Rear Clearance:** 12" (300 mm) required (for connections and air flow).

**Weight:** 190 lbs. (86 kg).

#### Bulb Input Power Levels:

- Full power: 6000 watts.
- Low power: 4000 watts.

**Interconnecting Cables:** Circular connectors with locking rings (not interchangeable with other Fusion UV power supply cables).

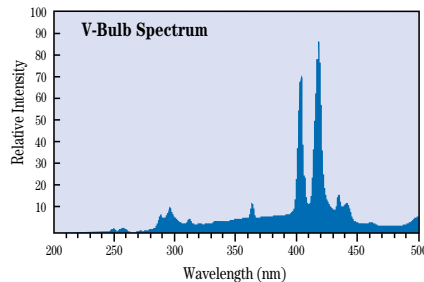
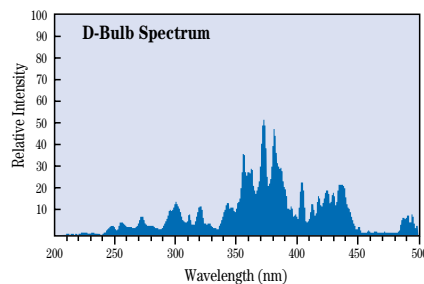
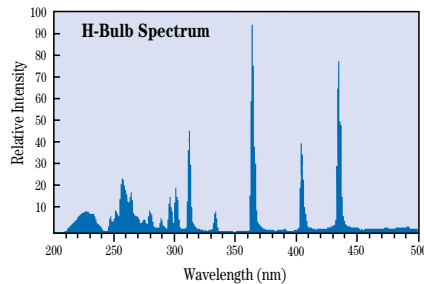
**Voltage:** P600M: 380, 415, 440 volts, three phase at 50 Hz or 400, 460, 480 volts, three phase, at 60 Hz (specify at time of order). (Operation from 200, 208, 220, or 240 volt requires customer supplied step-up transformer(s).)

**Line Power:** 10.8 kva, 3 phase (6.2 kva/phase).

**Control Voltage:** Supplied internally.

F600S lamp system is fully certified to applicable European and USA regulations and requirements.

### F600S Spectral Outputs



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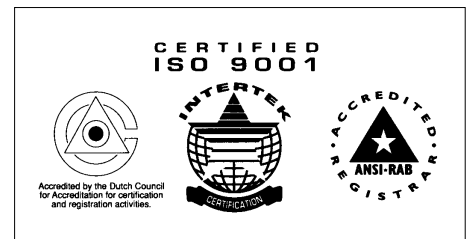
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Corporate Headquarters Certification



U.S. Patent No. 3911318; 3872349;  
3983039; 4042850; 4208587; 4359668;  
4313969; 4269581; 4485332; 4507587  
U.K. Patent No. 1482950  
Japan Patent No. 1142145; 1130584  
France Patent No. 7428765  
Canada Patent No. 1024246  
Other U.S. and Foreign Patents Pending.

We reserve the right to incorporate changes and improvements without notice.

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