



## Fusion UV® F600S UV Curing System

The F600S UV lamp system has been Fusion UV's workhorse product for more than 20 years. Reliable and solid-performing, continual updates make it an effective solution for a wide variety of industrial curing applications. A modular 10-inch lamp system, the F600S operates at 600 W/inch (240 W/cm). The microwave lamp operates without the metal electrodes required in conventional arc lamps.

The F600S UV lamp system's power stems from technical enhancements to the I600M irradiator and the P600M power supply. The P600M power supply has two power levels and is microprocessor controlled. During operation, the organic light-emitting diode (OLED) display offers continuous status updates and instant system diagnostic information. The irradiators placed end-to-end can create a lamp system of almost any length, providing high uniformity for wide applications.

Fusion UV's modular, microwave-powered UV lamp and bulb technology is universally recognized for outstanding stability and long operational life. Our product development is driven by a customer-centric mandate of continual innovation and improvement.

### Fusion UV Advantages:

- High speed production resulting from high peak irradiance
- Easy & fast software updates via USB interface
- Reduced downtime with easy troubleshooting – front panel displays data, EEPROM stores the last 10 faults
- System is RoHS compliant
- Robust and reliable operation and control, even in harsh environments, due to effective electrical isolation
- Easier to process heat-sensitive substrates due to less IR heat from bulb
- Popular bulb spectra available with a simple bulb change

**Fusion UV®**

  
**excelitas®**

# Specifications: F600S

The F600S [240 W/cm (600 W/in.)] system consists of the following items:

- An I600M-series irradiator.
- A P600M power supply.
- One cable assembly to connect the high voltage and control outputs from the power supply to the lamp.
- A Fusion UV RF (microwave) leakage detector assembly, RF-5.
- One cable assembly to connect the power supply to the RF detector assembly.

## Irradiator Model I600M

### Weight:

- I600M: 18 kg (39 lbs.).
- I600MB: 25 kg (55 lbs.).

**Dimensions:** 440 mm (17.3 in.) high x 210 mm (8.2 in.) wide x 270 mm (10.6 in.) long.

**Cooling Air:** Minimum 7.7 m<sup>3</sup>/min. (270 scfm) of filtered air at 2.2 kPa water gauge (8.9 in.) at the inlet (2.0 kPa inside the irradiator housing).

**Exhaust:** Minimum 10.6 m<sup>3</sup>/min. (375 scfm) at -50 Pa water gauge (-0.2 in.) measured in the light shield.

**Reflector Geometry:** Elliptical. Focus 53 mm (2.1 in.) from irradiator face (209 end reflectors available for far-field curing).

**Lamp Power:** Full power: 240 W/cm (600 W/in.); 6,000 watts total.

**Footprint:** 267 mm (10.5 in.) x 206 mm (8.1 in.).

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

**Mounting Position:** Any angle.

**Bulbs Available:** H, D, V.

## Power Supply Model P600M

**Weight:** 80 kg (177 lbs.).

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

**Voltage:** P600M: 380, 400, 415 volts, 3 phase, at 50 Hz or 380, 400, 460, 480 volts, 3 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 at 100%:** 10.8 kVA, 3 phase (6.2 kVA/phase).

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

### Bulb Input Power Levels:

- Full power: 6,000 watts.
- Low power: 4,000 watts.

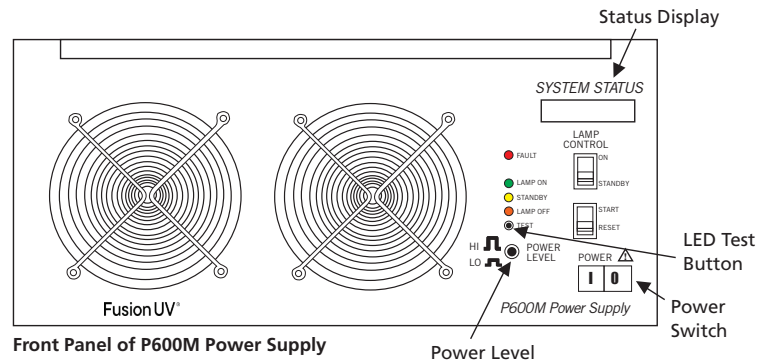
**Interconnecting Cables:** Circular connectors with locking rings.

**Control Voltage:** Supplied internally.

**USB:** Easy access on front panel for software upgrades.

**Lamps contain mercury. Manage in accordance with local, state or federal disposal laws.**

TÜV certified. Pending CE approval.



## Utilities

**Maximum Line Power:** 10.8 kVA @ 100% power.

**Maximum Line Current:**

- 50 Hz, 16 amps.
- 60 Hz, 16 amps.

**Water:** None required.

**Input Voltage:** 380–415/380–480 V (50/60 Hz).

**Compressed Air:** None required.

Note: If using a remote cooling or exhaust blower assembly, contact Fusion UV for dimensions and performance requirements.

Contact your local Excelitas Fusion UV office for an engineered solution for your specific requirements.



www.excelitas.com

info.hna@excelitas.com

ISO 9001 Certified QMS

