

## F500 Portable UV Curing Lamp

The INCURE F500 is a portable UV curing lamp. F500 can handle a variety of UV curing applications due to its versatility. With an effective curing width of 6", it is ideal for batch or conveyor mounted curing of small parts. Weighing-in at a mere 6 pounds, the system is also perfect for applications where frequent transportation is involved. The unit features a lightweight removable head, which serves as a self-contained handheld curing lamp during operation. The bottom half of the unit is an accessories carrying case for the headrest, UV glasses, power cord and adhesives, and is not required during operation. The arc lamp is powered by the state of the art UV Power-Plus Lamp Driver. Simple yet high-tech design, the F500 is extremely user-friendly and reliable, requiring virtually no learning curve or setup time.



|                 |                                |   |
|-----------------|--------------------------------|---|
| <b>FEATURES</b> | <b>Removable Lamp Head</b>     | The hand-held head contains a long life 400-Watt metal halide type lamp, which emits up to 500mW/cm <sup>2</sup> of evenly distributed, UVA light (315–400nm). Typical lamp life is 1000 hours. The top surface of the lamp head also has threaded inserts for attachment to a customer's fixture, conveyor or automated machine. |
|                 | <b>Lamp Power Regulation</b>   | The system's switch mode power supply maintains constant lamp power regardless of variations in AC line input or lamp voltages. This regulation provides for repeatable curing times and longer lamp life.  |
|                 | <b>Standby Mode</b>            | The unit features a standby mode rocker switch, which reduces lamp power by one half. This mode can be used to reduce heat and stray UV light output while the system is not in use.  |
|                 | <b>Forced Air Cooling</b>      | Integrated cooling fan in the lamp head insures cool operation and high system reliability.   |
|                 | <b>Optional Lamp Spectrums</b> | The F500 is available with UVA, UVB & visible spectrum lamps, which insure compatibility with adhesives and coatings of all types.  |

| <b>General</b>       |                             |   |  |
|----------------------|-----------------------------|---|--|
|                      | Model                       | F500  |  |
|                      | Order Number                | 290004  | 290003                                       |
| <b>Power Supply</b>  |                             |   |  |
|                      | Input Voltage               | 100-120VAC $\pm$ 10%  | 200-240VAC $\pm$ 10%                         |
|                      | Input Current (max)         | 7 Amperes   | 3.5 Amperes                                  |
|                      | Source Input Frequency      | 47 Hz to 63 Hz  | 47 Hz to 63 Hz                               |
|                      | Lamp Power Regulation       | $\pm$ 1%  |  |
|                      | Protection                  | Inrush current limit,<br>Line voltage surge,<br>Short circuit,<br>Open circuit,<br>Hot re-strike,<br>Over temperature<br>Ignition retry timeout | 5 minutes                                    |
| <b>Lamp</b>          |                             |   |  |
|                      | Lamp Type                   | 400 Watt Metal Halide   | Quartz, ozone-free                           |
|                      | Lamp Voltage                | 135 $\pm$ 15V   |  |
|                      | Arc Length                  | 32 mm   |  |
|                      | Burning Position            | Horizontal  |  |
|                      | Radiation Flux              | 72 Watts  | 315 – 400 nm                                 |
|                      | Warm-up Time                | 1 to 2 minutes  |  |
|                      | Cooling time before Restart | 5 minutes typical   | Lamp protection prevents restart of hot lamp |
|                      | Lamp Peak Irradiance        | 500mW/cm <sup>2</sup> , UVA   | 2" from base of lamp head                    |
|                      | Curing Area                 | 6 x 3" minimum  | Affected by lamp height                      |
|                      | Lamp Life                   | 1000 hours typical  | Affected by number of on/off cycles          |
| <b>Environmental</b> |                             |   |  |
|                      | Operating Temperature       | +10 °C to +40 °C<br>(+50 °F to +104 °F)   |  |
|                      | Storage Temperature         | 0 °C to +60 °C<br>(+32 °F to +140 °F)   |  |
|                      | Relative Humidity           | 30 to 75% operating,<br>10 to 100% storage  | Non-condensing                               |
|                      | Cooling                     | Forced air  |  |
|                      | Over-temp shutdown          | 67 °C (internal)  |  |
| <b>Dimensions</b>    |                             |   |  |
|                      | L x W x H (inches)          | 8" x 5" x 16.5"   | Including bottom enclosure                   |
|                      | Weight (lbs.)               | 6 lbs. w bottom box   | 3.5 lbs. lamp head only                      |
|                      | Max Chamber Part Size       | 4.25" x 4.25" x 2"  | For curing in headrest                       |