

### HIGH PERFORMANCE AIR COOLED UV LED SYSTEM




Phoseon Technology UV LED light systems deliver superior performance, maximum UV energy and real-world reliability in both air and water cooled configurations. Ultraviolet (UV) LED systems are compact solid-state devices providing low energy consumption without moving parts. They are environmentally friendly with no ozone generation and mercury free. Phoseon's patented Semiconductor Light Matrix (SLM)<sup>TM</sup> Technology provides the following features and benefits:






FEATURES	BENEFITS
Performance: High Intensity Light Source	Spectral radiant power equivalent to multi kilowatt mercury vapor lamp
Semiconductor Light Matrix (SLM) <sup>TM</sup> Technology	Increased productivity, maintenance free
Reliability: consistent UV output over time, longer life	Lower cost of ownership
Instant on/off - Enabled only when required for curing	Less energy required, lower operating costs
Environmentally Friendly	Safer - mercury and ozone free
Small form factor and integrated electronic controls	Easy Integration
Cooler operating temperature	Ability to cure on heat sensitive substrates

### APPLICATIONS

Phoseon products are successfully curing inks, coatings and adhesives in many demanding applications today. Here are a few examples:

# FireFly Datasheet

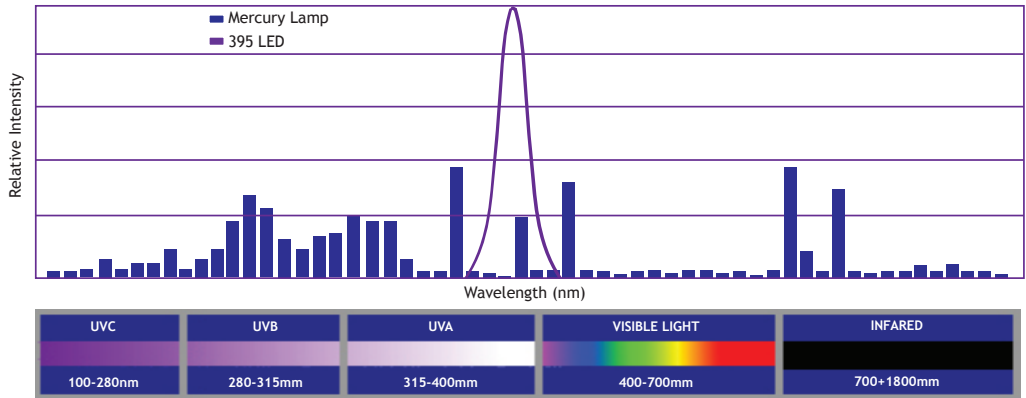
## SPECIFICATIONS

Emitting Window	Product	Dimensions	Product Family Features
25 x 10mm		65 x 31 x 92mm 0.2 kg (0.4 lbs)	 Air Cooled *Peak Irradiance: Up to 4W/cm <sup>2</sup> Total UV Power: Up to 60W Pure UV Output: 380-420nm Interface Control: PLC Safety: CE, RoHS and REACH Compliant
25 x 25mm		74 x 48 x 135mm 0.4 kg (0.9 lbs)	
25 x 20mm 50 x 20mm 75 x 20mm		110 x 68 x 200mm 1 kg (2.2 lbs)	
150 x 20mm		195 x 96 x 200mm 2 kg (4.4 lbs)	

\*Peak Irradiance (the maximum measured irradiance at the output of the UV emitting window)  
 All standard products have a peak wavelength of 395nm

## UV LED VS MERCURY SPECTRAL DISTRIBUTION

UV LED curing lamps efficiently convert 15-30% of the input electrical power into usable UV light with no harmful UV-C or infrared exposure. That efficiency translates into approximately 80% power and heat savings over mercury based lamps.



Interested in integrating our technology? Phoseon can tailor a solution for your particular integration needs. Please contact us to discuss your specific requirements.

