FireEdge™ FE300





Product Specifications

Phoseon UV LED SLM™ Technology

Phoseon's patented Semiconductor Light Matrix (SLM)™ technology encapsulates LEDs, arrays, optics and cooling to maximize UV LED curing performance. The FireEdge™ FE300 UV LED source provides high output power in an extremely compact mechanical package for high-speed pinning and full cure applications. The FE300 UV LED source is CE, RoHS, and REACH compliant.

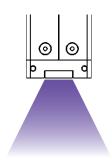


Performance

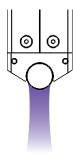
	365nm		385, 395nm		405nm	
Peak Irradiance	3.0 W/cm ²		5.0 W/cm ²		4.0 W/cm ²	
Emitting Window (mm)	75x10	110x10	75x10	110x10	75x10	110x10
48Vdc Power In (Typical)	65W / 1.4A	85W / 1.8A	85W / 1.8A	110W / 2.3A	145W / 3.0A	195W / 4.0A
48Vdc Power In (Maximum)	80W / 1.7A	105W / 2.2A	95W / 2.0A	125W / 2.6A	175W / 3.6A	230W / 4.8A

Available Optics: Angle Reduction Technology (ART)

See 29071 FE300 Optic Options Technical Note for more details.

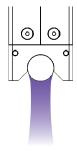


Flat Glass (Standard Optic)
Wide footprint for
maximum dwell time



ART Rod (Available Option)

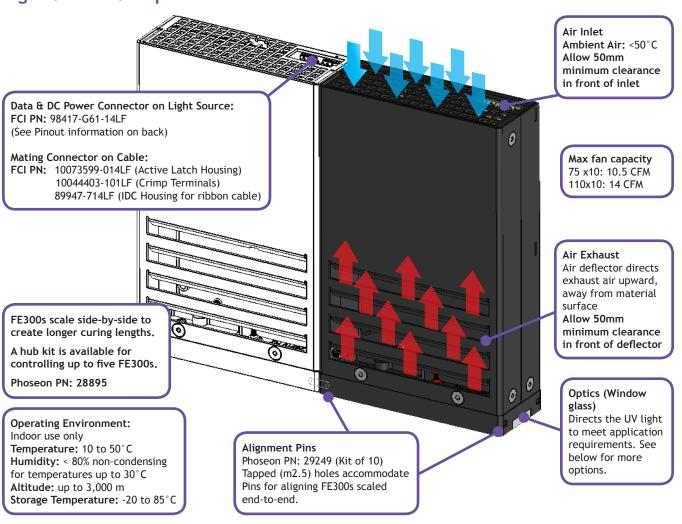
Minimum light spread
reduces stray light effects



Enhanced Rod (Available Option)
Minimum light spread reduces
stray light effects



Light Source Setup

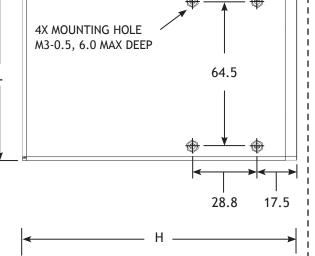


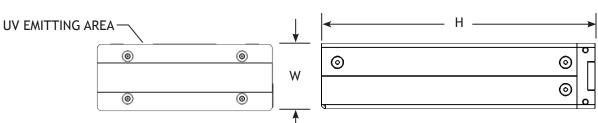


Units of measurement: mm

Dimensions	75 x10	110x10
Ĺ	77.1	113.1
Н	122.0	122.0
H*	130.6	130.6
W	29.0	29.0
UV Emitting Area	75 x 10	110 x 10
Weight (kg)	0.28	0.38

H* is the dimension with the ART Rod & Enhanced Rod Lens.





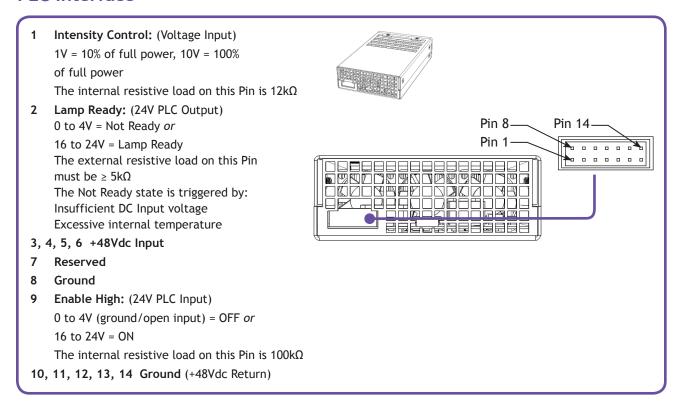
Enhanced Rod Profile

Flat Glass

Profile

26.2

PLC Interface



The equivalent circuits inside the FE300 UV light source are shown below:

