FirePower™ FP601





Product Specifications

Phoseon UV LED SLM™ Technology

Phoseon Technology is the world leader in providing UV LED solutions for commercial and industrial applications. Phoseon's products deliver superior performance and real-world reliability for UV curing of adhesives, coatings and inks.

Phoseon's patented Semiconductor Light Matrix (SLM)[™] technology encapsulates LEDs, arrays, optics and cooling to maximize UV LED curing performance. The FirePower[™] family of high-power water cooled products allows new applications in the flexographic segment while also allowing increased speed in the narrow web segment.



Performance

	395nm									
Peak Irradiance	24W/cm ²									
Emitting Window (mm)	300x20	350x20	375x20	450x20	525x20					
48V Power In (Max)	3326W/70A	3881W/81A	4158W/87A	4990W/104A	5821W/122A					
Chiller/Cooler Capacity	2727W	3182W	3410W	4092W	4773W					
Chiller/Cooler Flow Rate	6LPM	6LPM	6LPM	8LPM	12LPM					
Pressure Drop	0.50 bar 7.3 psi	0.63 bar 9.2 psi	0.63 bar 9.2 psi	0.76 bar 11.0 psi	2.21 bar 32.0 psi					

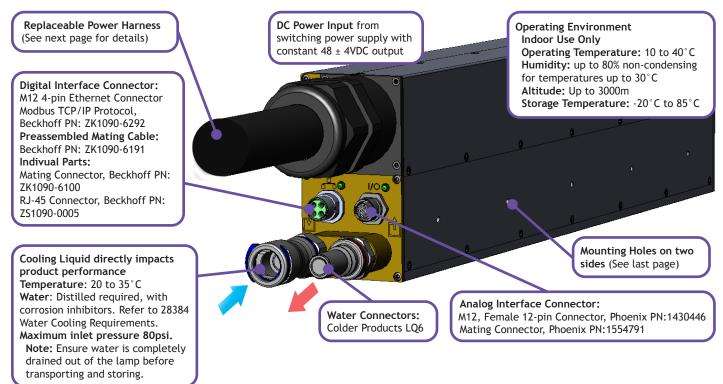
	395nm									
Peak Irradiance		20W/cm ²								
Emitting Window (mm)	300x20	350x20	525x20	600x20	675x20					
48V Power In (Max)	2784W/58A	3216W/67A	3456W/72A	4176W/87A	4848W/101A	5568W/116A	6288W/131A			
Chiller/Cooler Capacity	2283W	2637W	2834W	3424W	3975W	4566W	5156W			
Chiller/Cooler Flow Rate	6LPM	6LPM	6LPM	6LPM	8LPM	8LPM	10LPM			
Pressure Drop	0.50 bar 7.3 psi	0.63 bar 9.2 psi	0.63 bar 9.2 psi	0.76 bar 11.0 psi	0.97 bar 14.0 psi	1.10 bar 16.0 psi	2.48 bar 36.0 psi			

	395nm									
Peak Irradiance		16W/cm ²								
Emitting Window (mm)	300x20	350x20	375x20	450x20	525x20	600x20	675x20			
48V Power In (Max)	2218W/47A	2587W/54A	2772W/58A	3326W/70A	3880W/81A	4435W/93A	4990W/104A			
Chiller/Cooler Capacity	1819W	2121W	2273W	2727W	3182W	3637W	4092W			
Chiller/Cooler Flow Rate	6LPM	6LPM	6LPM	6LPM	8LPM	8LPM	10LPM			
Pressure Drop	0.50 bar 7.3 psi	0.63 bar 9.2 psi	0.63 bar 9.2 psi	0.76 bar 11.0 psi	0.97 bar 14.0 psi	1.10 bar 16.0 psi	2.48 bar 36.0 psi			



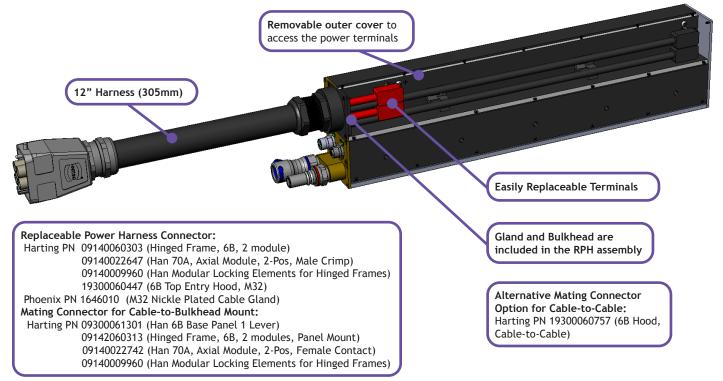


Light Source Setup



Replaceable Power Harness

The FP601 DC Power Connector is part of a field-replaceable power harness. The Replaceable Power Harness (RPH) is available as a pre-assembled kit. Contact Phoseon for more information.





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PLC Interface

1 2

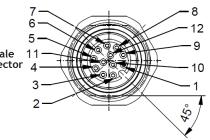
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The female 12-pin connector is used to control the light source via PLC.

M12 Female Data Connector

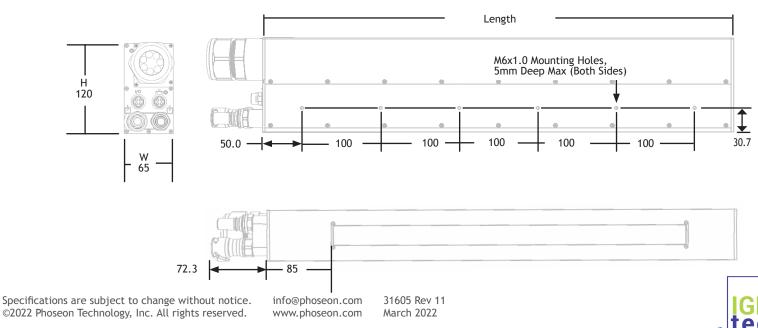


La	o Not Use amp Ready / UV Override: Dual purpose pin - Output / Input)	7	IP Offset: (Resistive Load) See Ethernet Protocols User Manual, PN 31098, for more details.	
0V Ca Ma En	pen or +16V to +24V = UV Emission Allowed / to +6V = UV Emission Stopped an be pulled low to ground = UV Override ax sync current = 20mA hable High: (24V PLC Input) to 6V (ground/open input) = OFF or 16V to 24V = ON	8	Thermal Ready: (24V PLC Output) 0 to 6V (ground) = Thermal Fault <i>or</i> 16V to 24V (open) = Thermal Ready (no fault) Internal resistive load on this Pin is >3kΩ Sink Current Maximum = 6mA Should be connected to high impedence input	
Te Ou (n In 1V	emperature Monitor: (Voltage Output: 0V to 7.5V) utput voltage proportional to heat sink temperature not water) 0.1V = 1°C tensity Control: (Voltage Input: 0.1V-10V) / = 10% of full power, 10V = 100% of full power ternal resistive load on this Pin is 100kΩ	9	Lamp Warning: (24V PLC Output) 0 to 6V (ground) = Lamp Warning (does not shut off UV, but lamp may have an issue) <i>or</i> 16V to 24V (open) = Lamp Ready (no warning) Internal resistive load on this Pin is > $3k\Omega$ Sink Current Maximum = $6mA$ Should be connected to high impedence input 11. 12. Ground	
		10,	11, 12 Ground	J

Dimensions

Units of measurement: mm

FirePower FP601										
UV Emitting Window	300x20	350x20	375x20	450x20	525x20	600x20	675x20			
Length	450	500	500	600	675	750	850			
Weight (kg)	6.3	6.8	7.0	7.9	9.1	10.5	11.9			
# Mounting Pts (each side)	4	5	5	6	7	7	8			
Overall Dimensions (LxWxH)	450x65x120	500x65x120	500x65x120	600x65x120	675x65x120	750x65x120	850x65x120			



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