

FireJet™ FJ605

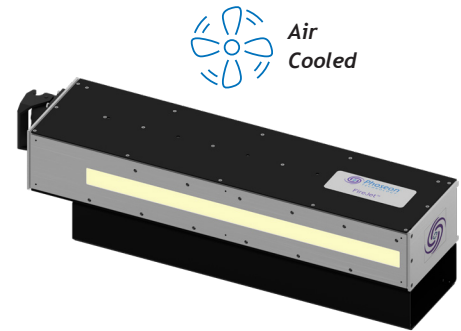
Product Specifications



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 FireJet light source is for use in high-performance curing.



Performance

Wavelength	385, 395, 405nm											
Peak Irradiance	16W/cm ²						20W/cm ²					
Emitting Window (mm)	300x20	375x20	450x20	525x20	600x20	675x20	300x20	375x20	450x20	525x20	600x20	675x20
48V Power In (Max)	2102W 44A	2983W 62A	3579W 75A	4176W 87A	4772W 99A	5369W 112A	2628W 55A	3728W 78A	4474W 93A	5220W 109A	5966W 124A	6711W 140A

Light Source Setup

Replaceable Air Filters:
 Phoseon PN 36273 (375x20mm: Pack of 5)
 Phoseon PN 36274 (450x20mm: Pack of 5)
 Phoseon PN 36287 (525x20mm: Pack of 5)
 Phoseon PN 36288 (600x20mm: Pack of 5)
 Phoseon PN 36289 (675x20mm: Pack of 5)

Air Intake (top)
 Minimum Clearance: 50mm

TargetCure™
WhisperCure™

Air Exhaust (side)
 Minimum Clearance: 50mm

Operating Environment:
 Indoor use only
 Temperature: 10 to 40 °C
 Humidity: <80% non-condensing for temperatures up to 30 °C
 Altitude: up to 3,000 m
 Storage Temperature: -20 to 85 °C

Digital Interface Connector:
 M12 4-pin Ethernet Connector
 Modbus TCP/IP Protocol,
 Beckhoff PN: ZK1090-6292
Preassembled Mating Cable:
 Beckhoff PN: ZK1090-6191
Individual Parts:
 Mating Connector, Beckhoff PN: ZK1090-6100
 RJ-45 Connector, Beckhoff PN: ZS1090-0005

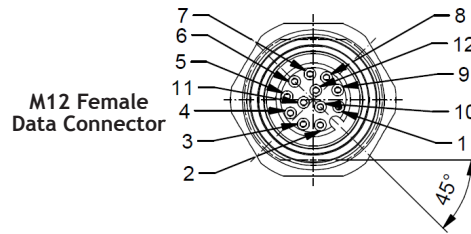
Analog Interface Connector:
 M12, Female 12-pin Connector,
 Phoenix PN: 1430446
 Mating Connector,
 Phoenix PN: 1554791

DC Input Power: 48±1Vdc
DC Connector:
 Phoenix PNs 1417297 (Module, 2-Pos, 70A, 6B, Pin)
 1411318 (Panel Base, 6B, Single Latch)
 1417398 (Frame, Carrier, 6B)
DC Mating Connector:
 Phoenix PNs 1417296 (Module, 2-Pos, 70A, 6B, Socket)
 1412567 (Housing, 6B, Straight, M32)
 1417398 (Frame, Carrier, 6B)
 1646010 (Cable Gland, Brass, Nickel-Plated, M32)



PLC Interface

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



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|--|---|
| <p>1 Do Not Use</p> <p>2 Lamp Ready / UV Override:
(Dual purpose pin - Output / Input)
Open or +16V to +24V = UV Emission Allowed
0V to +6V = UV Emission Stopped
Can be pulled low to ground = UV Override
Max sync current = 20mA</p> <p>3 Enable High: (24V PLC Input)
0 to 6V (ground/open input) = OFF or 16V to 24V = ON</p> <p>4 Do Not Use</p> <p>5 Temperature Monitor: (Voltage Output: 0V to 11.0V)
Output voltage proportional to heat sink temperature
0.1V = 1°C
This value should not exceed approximately 8V</p> <p>6 Intensity Control: (Voltage Input: 0.1V-10V)
1V = 10% of full power, 10V = 100% of full power
Internal resistive load on this Pin is 143kΩ</p> | <p>7 Segment Control/IP Reset: (Voltage Input)
0V = 100% of Lamp Enabled
2-10V = Disables right and left SLMs
>18.3V = Reset IP Address to Factory Default
Minimum internal resistive load = 62kΩ</p> <p>8 Thermal Ready: (24V PLC Output)
0 to 6V (ground) = Thermal Fault or
16V to 24V (open) = Thermal Ready (no fault)
Internal resistive load on this Pin is 1.3kΩ
Sink Current Maximum = 6mA
Should be connected to high impedance input</p> <p>9 Lamp Warning: (24V PLC Output)
0 to 6V (ground) = Lamp Warning (does not shut off UV, but lamp may have an issue) or
16V to 24V (open) = Lamp Ready (no warning)
Internal resistive load on this Pin is 1.3kΩ
Sink Current Maximum = 6mA
Should be connected to high impedance input</p> <p>10, 11, 12 Ground</p> |
|--|---|

Dimensions

Units of measurement: mm

FJ605						
UV Emitting Window	300x20	375x20	450x20	525x20	600x20	675x20
Length (L)	436	511	586	661	736	811
Width (W)	150	150	150	150	150	150
Height (H)	145	145	145	145	145	145
Weight (kg)	7.7	8.6	9.4	10.4	11.3	12.3
# Mounting Points (each side)	4	4	5	6	7	7
Overall Dimensions (LxWxH)	436x150x145	511x150x145	586x150x145	661x150x145	736x150x145	811x150x145

