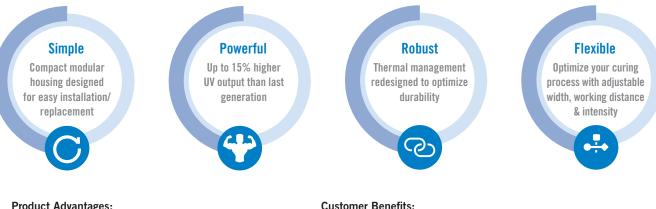
Heraeus



Semray[®] UV4203 LED Curing Solution

A high-power air-cooled LED system offering the flexibility to optimize your process in a wide variety of applications

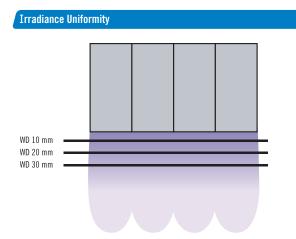


- **Product Advantages:**
- High-intensity, robust air-cooled system
- Dimming from 20% to 100%
- Uniformity >90% from 20 mm working distance
- Compact modular design scalable for different widths
- Easy replacement and wavelength adjustment

Customer Benefits:

- High productivity: significantly faster line speeds achievable
- Reduced downtime: quick and easy LED module removal, replaceable LED engine
- Space saving: compact design without water chiller or hoses
- Sustainable process: Reduces VOCs, CO₂, and is ozone and mercury free

Specifications: Semray® UV4203



Model	UV	UV4203 Segment			
Peak wavelength 1) [nm]	365	385	395	405	
Power consumption [W]	400	520	600	600	
Typical intensity at emission window [W/cm²]	12	13	16	16	
Emission window [mm²]	75 x 4	75 x 45			
Dimensions (W x D x H) [mm]	77 x 1	77 x 150 x 256			
Communication	Analog	Analog and RS485 MODBUS			
Fan speed [RPM]	16,500	16,500 (Max.)			
Noise level [dbA]	<68	<68			
Enclosure rating	IP20	IP20			

1) Tolerance for 365 nm is +6 nm /-5 nm and for 385 nm, 395 nm, 405 nm +/- 5 nm.

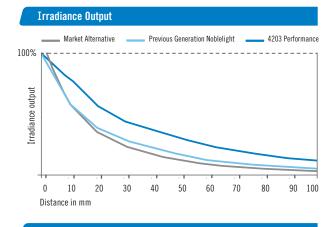
Electrical Data

Mains Connection: 48 Vdc (±5 %). Current (per segment): 13.5 A (max.). Dimming: 2 – max. 10 Vdc (20–100%). Controls: Analog / Digital (RS485 MODBUS / 9,600 or 115,200 baud).

Operating Conditions

Type of Cooling: Internal fan. Ambient Temperature in Operation: 10–40°C. Relative Humidity 21: Max. 80%. Degree of Protection: IP 20. Expected Life Time: Typ. 15,000 hrs.

 Condensation in or at the Semray[®] must be avoided at all times – this may further restrict the requirements regarding admissible humidity.



Power Supply

Weight: 10 kg (22 lbs). Dimensions: 483 mm x 186 mm x 882 mm with connector (19.01 in. x 7.32 in. x 34.72 in. with connector). **Cooling:** Ventilation: internal fans; air flow path: front to rear. Input Voltages: 200-240 V AC ±10%. Mounting Position: Horizontal, standard 19 in. rack mount chassis unit can be free standing, stacked, or rack mounted. Clearance: Allow 305 mm (12 in.) clearance front and rear of the power supply for cooling air flow and cable connections. Safety Interlocks: 1 External interlock (customer I/O or E-stop). Front Panel Indicators/Controls: Power/LED on/off switch; indicators. Display panel with Settings and Power Level control buttons. Output Range: 40-48 V. Enclosure Rating: IP20 (NEMA 1). Maximum Line Power: 3.0 kVA @ 100% output. Stacking: 5 units maximum.

Power Level Control Options: 4–20 mA; 0–10 Vdc; front panel. Communication Methods: Master/Slave (standard, dry-contact); DeviceNet[™] Mark II (additional module required)*; Profibus[®] DP-V1 (additional module required); EtherNet/IP[™] (additional module required). *Requires additional 24 V DeviceNet[™] power supply.

Power Supply Model Semray[®] CPS3





Contact your local Heraeus Noblelight office for an engineered solution for your specific requirements.



ISO 9001 Certified QMS

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