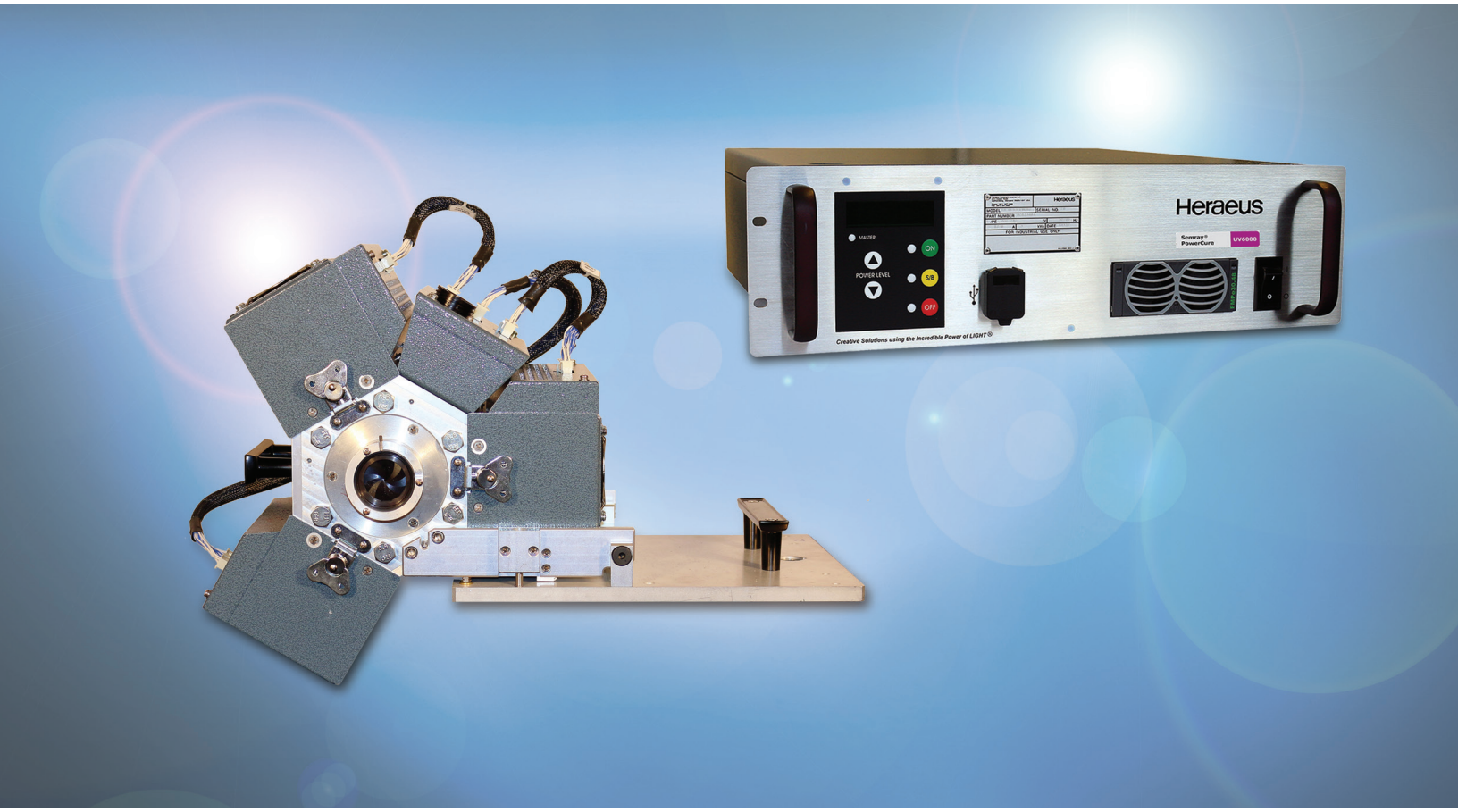
Heraeus



Heraeus Noblelight
Semray® UV PC6003 LED Lamp System

Heraeus is introducing the most advanced UV LED curing system for the optical fiber market. Designed from the ground up for the fiber drawing process, the UV PC6003 lamp system offers the class leading irradiance and uniformity required by the line speeds of today and tomorrow. The UV PC6003's low power consumption offers substantial electrical savings, and its ability to operate two lamps from one power supply is a reflection of its efficiency. It's time to find out what the UV PC6003 system can do for you and your drawing process.

Benefits:

- Designed specifically for optical fiber applications
- Class leading UV irradiance and uniformity
- Low electrical power consumption
- One or two lamps driven by single power supply
- Microwave equivalent controls and communication protocols
- Drop-in replacement system for Heraeus microwave systems

Competitive Advantages:

- Optimized photon management for efficient UV output
- High peak irradiance for maximum line speed
- High uniformity for optimal curing performance

Specifications: Semray® UV PC6003 LED Lamp System

UV PC6003 LED Lamp Assembly

Weight: 18 kg (40 lbs.).
Maximum Dimensions (W x H x L): 364 mm x 265 mm x 543 mm (14.3 in. x 10.4 in. x 21.4 in.).
Cooling: Internal fans.
Input Voltages: 44–52 Vdc, up to 60 A, powered by PC CPS3 controller power supply.
Mounting Position: M8 bolts available for standard VAM/strong back mounting. Alternative mounting configurations available.
Clearance: Allow 150 mm (6 in.) clearance at inlet of each lamp module.
Target Alignment Requirement: ±2 mm of quartz tube center.
Wavelength: 395 nm.
Irradiance at Target: 65–70 W/cm^2.
Uniformity: >80% at target.
Power Output Range: 40%–100%.

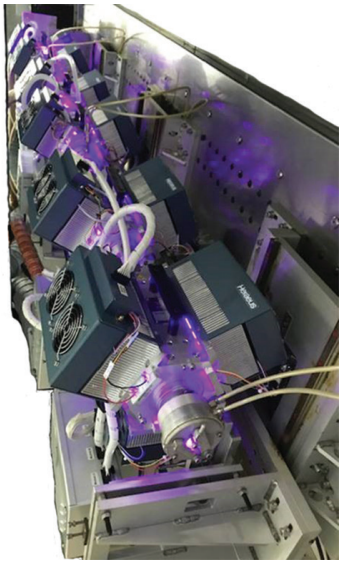
PC CPS3 Controller Power Supply

Weight: 10 kg (22 lbs).
Maximum Dimensions (W x H x L): 419 mm x 217 mm x 777 mm (16.48 in. x 8.54 in. x 30.6 in.).
Cooling: Internal fans.
Input Voltages Single-phase: 200 V–240 V ±10%, 50/60 Hz.
Mounting Position: Horizontal, standard 19 in. rack mount chassis. Unit can be free-standing, stacked, or rack mounted.
Clearance for Air Flow and Connections: Allow 305 mm (12 in.) clearance front and rear.
Safety Interlocks: E-stop, 2 external interlocks (customer I/O).
Output Range: 44–52 Vdc.
Controlling Capacity: Can control 1 or 2 UV PC6003 lamp assemblies.
Power Consumption: 3 kW (2 lamps).
Power Factor Correction: 99%.
Audible Noise Level: <60 dBA.
Certifications: CE; TÜV.

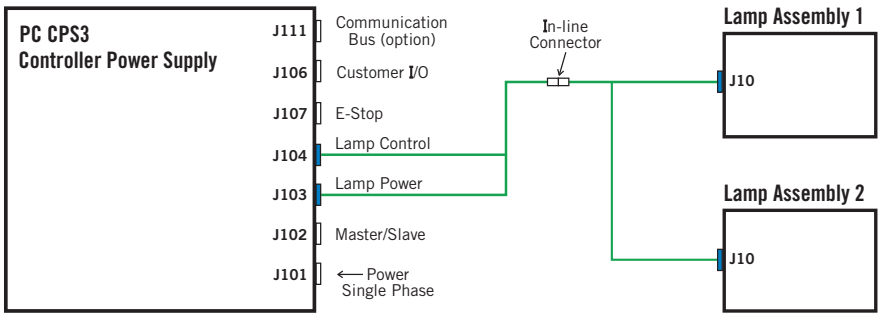
Control and Communication Options

Power Level Control Options	4–20 mA; 0–10 Vdc; front panel; master/slave.
Communication Methods	Master/slave (standard, dry-contact); DeviceNet™ (additional module required)*; Profibus® DP-V1 (additional module required); EtherNet/IP™ (additional module required). *Requires additional 24 V DeviceNet™ power supply.
IIoT/Digitalization	AIMS® PC Series.

Specifications subject to change without notice.



UV PC6003-2 System Diagram



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

ISO 9001 Certified QMS

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