

Heraeus Noblelight UV PC6003 UV 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

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 UV LED Lamp System

UV PC6003 UV 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 PowerCure UV6000 controller power supply.
Mounting Position: M8 bolts available for standard tower 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/cm².
Uniformity: >80% at target.
Power Output Range: 40%–100%.

PowerCure UV6000 Controller Power Supply

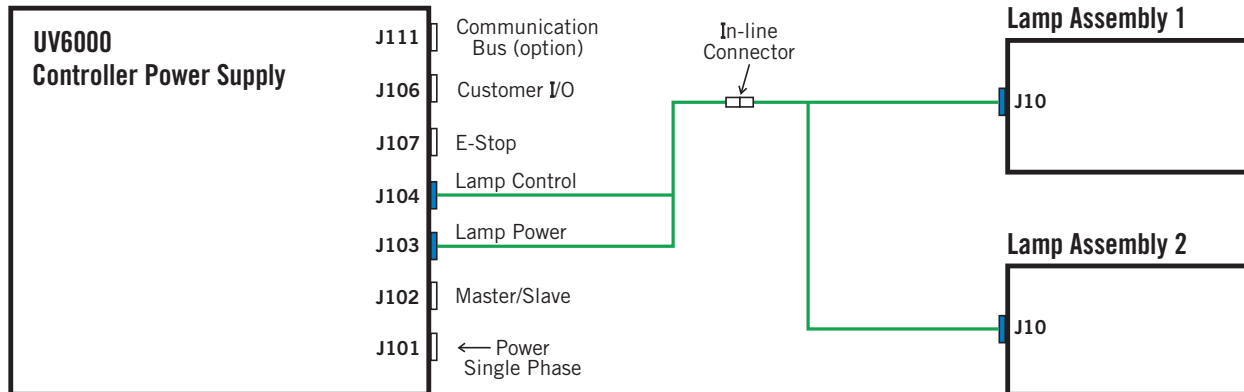
Weight: 10 kg (22 lbs.).
Maximum Dimensions (W x H x L): 419 mm x 217 mm x 777 mm (16.48 in. x 8.54 in. x 30.6 in.).
Cooling: Internal fans.
Input Voltages Single-phase: 200 V–240 V ±10%, 50/60 Hz.
Mounting Position: Horizontal, standard 19 in. rack mount chassis. Unit can be free-standing, stacked, 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).
Audible Noise Level: <60 dBA.

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); Profinet® RT (additional module required); EtherNet/IP™ (additional module required). *Requires additional 24 V DeviceNet™ power supply.

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.



Germany
Heraeus Noblelight GmbH
 Heraeusstraße 12-14
 63450 Hanau
 Phone +49 6181 35 4499
 Fax +49 6181 35 9926
 hng-uv@heraeus.com
 www.heraeus-noblelight.com

USA
Heraeus Noblelight America LLC
 910 Clopper Road
 Gaithersburg, Maryland
 20878-1357
 Phone +1 301 527 2660
 Fax +1 301 527 2661
 info.hna.uvp@heraeus.com
 www.heraeus-noblelight.com/uvamericas

Japan
Heraeus K.K.
 Noblelight Division
 Sumitomo Fudosan Otowa
 Building 1F, 2F, 5F
 2-9-3 Otsuka, Bunkyo-ku
 112-0012, Tokyo
 Phone +81 3 6902 6602
 Fax +81 3 6902 6613
 info.hkk@heraeus.com
 www.heraeus-noblelight.jp

China
Heraeus Noblelight (Shenyang) Ltd.
 Shanghai Branch
 2F, 5th Building, No. 406 Guilin Rd
 Xuhui District
 Shanghai 200233, P.R. China
 Hotline +86 400 080 2255
 Phone +86 (0) 21 3357 5555
 Fax +86 (0) 21 3357 5333
 info.hns@heraeus.com
 www.heraeus-noblelight.com