HSH1002NEO

Lamps for Photolithography



Description

PerkinElmer Optoelectronics is a leading manufacturer of mercury short arc lamps ranging in output power from 1000 to 8000 watts. These lamps are used in the production of printed circuit boards, liquid crystal displays and semiconductors. The HSH Series lamps are used worldwide in microlithography systems manufactured by ASML, Canon, GCA, Nikon, Karl Suss, Ultratech Stepper, and SVG. With extremely high stability, uniform output distribution and extended lamp lifetimes, the HSH Series has become the lamp choice of many of the world's leading semiconductor manufacturers.

PerkinElmer has been a leading manufacturer of high intensity arc lamps for more than 30 years and is a premier lamp supplier for solid state lasers, medical equipment, NASA space systems and microlithography. PerkinElmer has steadily advanced lamp performance from 1000 watts to 8000 watts. With the introduction of new materials and proprietary manufacturing processes, we have extended lamp lifetimes form several hundred

hours to more than two thousand hours. The HSH Series provides longer lifetimes, outstanding uniformity, and excellent spectral quality which results in increased throughput, reduced downtime and an overall reduction in the cost of ownership.

Applications

· Microlithography



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Operational Specifications

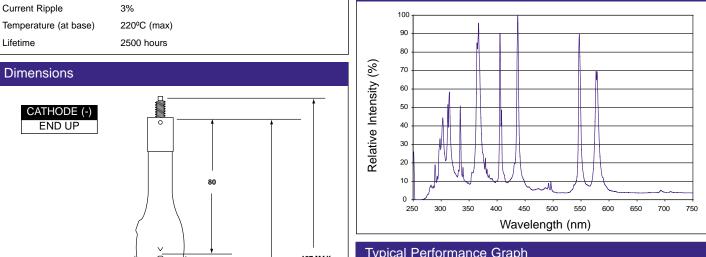
Description	Nominal	Range
Power (idling mode)	700 watts	650-750 watts
Power (flash mode)	1000 watts	1050 watts (max)
Current (idling mode)	16 amps (DC)	14.2-17.8 amps (DC)
Current (flash mode)	21.3 amps (DC)	19-23.6 amps (DC)
Voltage (idling mode)	44 volts (DC)	39-49 volts (DC)
Voltage (flash mode)	47 volts (DC)	42-52 volts (DC)
Current Ripple	3%	
Temperature (at base)	220°C (max)	

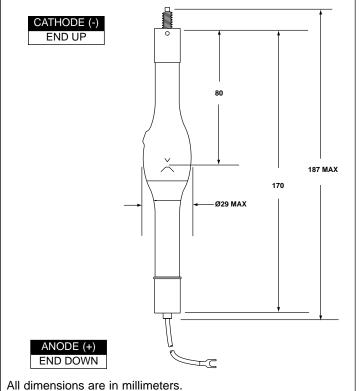
Physical Specifications

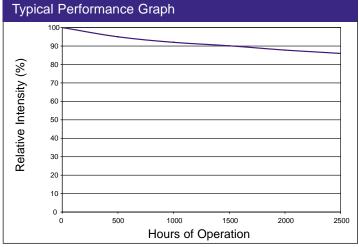
Spectral Output

Description **Specification** Arc Gap 3.0 mm (max) Anode Base 14 mm Dia

Cathode Base 15 mm Dia (M6-P1.0)







Notes

Lamp must be operated with cathode end up and anode end down. Inclination of lamp axis to vertical must not exceed 10°.

Part Number References

NIKON NSR-1505, G5, G6, G7, G8 Used In

Replaces USH1002FNL (2&3) HBO1002W/NL

PerkinElmer welcomes inquiries about special lamps. We would be pleased to discuss the requirements of your application and the feasibility of designing a lamp specifically suited to your needs.

For more information e-mail us at opto@perkinelmer.com or visit our web site at www.perkinelmer.com/opto.

All values are nominal; specifications subject to change without notice.

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