

HPA Series — UV-A Medium-pressure Metal Halide Lamps

Specification Datasheet · TopRays Special Light Sources

The HPA series is a medium-pressure metal halide discharge lamp optimized for the UV-A band (315 – 400 nm) and a core light source for copying and photochemical processes. The lamp is made from ozone-free quartz and precisely tuned with specific metal halide additives for high radiant efficiency and arc stability.



Key Features

Item	Value
Spectral range	Main peak in UV-A (315 – 400 nm) with a small amount of UV-B / UV-C
Ozone generation	None (ozone-free quartz)
Bulb operating temperature	750 °C – 950 °C
Maximum pinch temperature	350 °C
Burning position	Horizontal(±10°)
Cooling	Forced-air cooling according to power class



The core value of HPA lamps: high radiant efficiency, a stable salt treatment process and long life.

Typical Applications

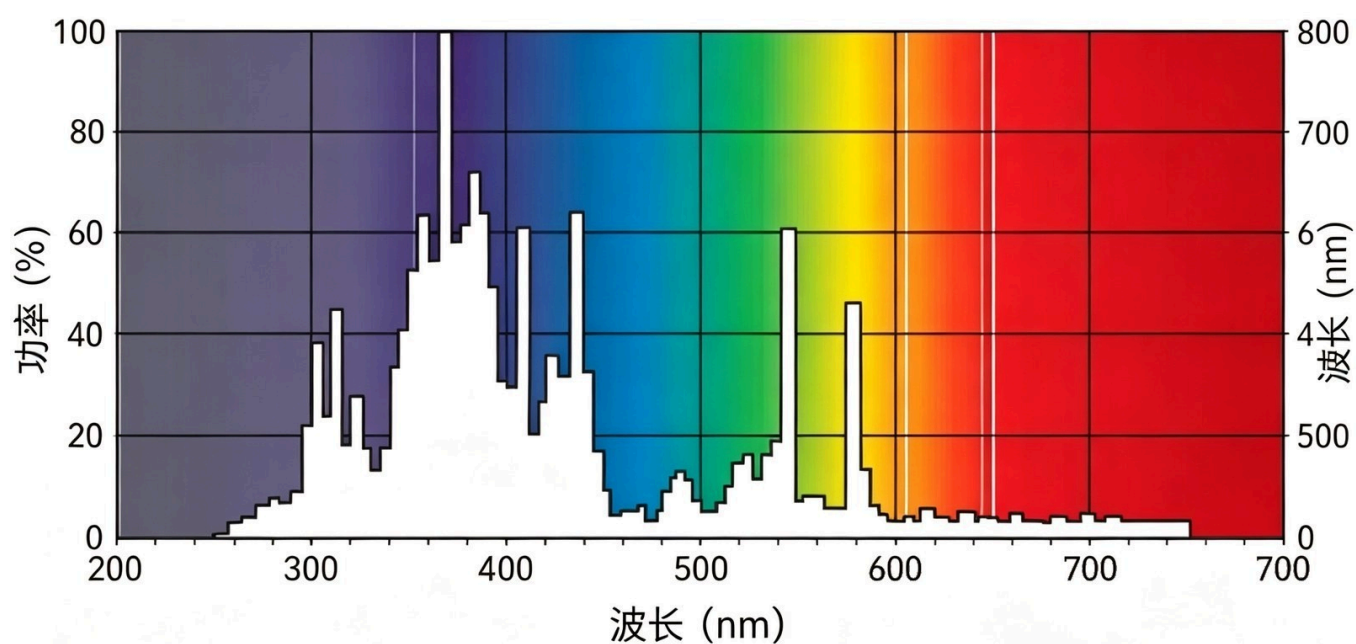
- UV curing of adhesives, resins and pigmented lacquers (coatings / inks)
- Printed circuit board (PCB) exposure
- Offset plate making
- Contact copying from transparent film to photosensitive media (film, offset plates, microfilm)

Specifications

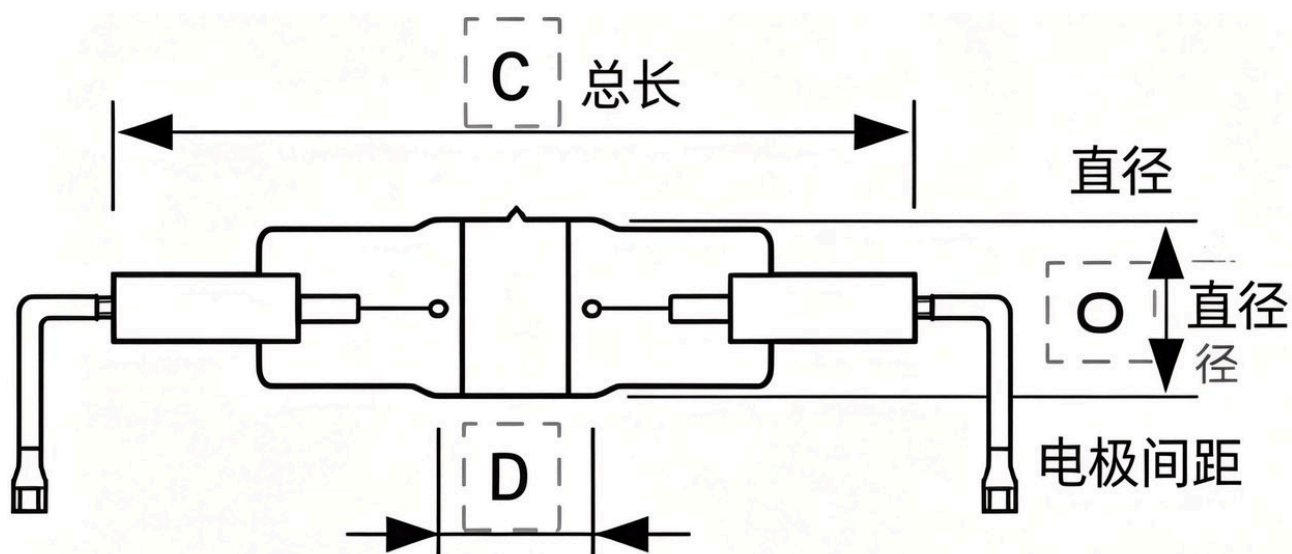
Model	Power (W)	Voltage (V)	Current (A)	Arc length (mm)	Overall length (mm)	Diameter (mm)	UV-A irradiance* ($\mu\text{W}/\text{cm}^2$)	750 h maintenance	Base	Cable length
HPA 1000/20 R	1100	120	10.5	112	129 $\pm$ 2	28 max	1780	80%	C10.5	90 mm (T type)

Spectrum & Outline

HPA 功率光谱分布:



HPA series power spectral distribution: radiant energy concentrated in the UV-A band (315 – 400 nm).



单位：毫米

HPA lamp outline dimensions (C overall length, D electrode gap, diameter; in millimetres). Other sizes available on request.

Note: UV-A irradiance is measured perpendicular to the lamp axis at 1 m; spectral response complies with IEC (315 – 400 nm).