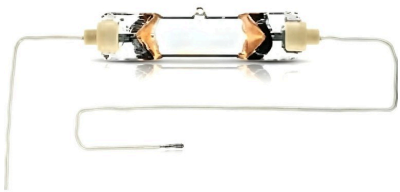


HPM Series — Diazo High-pressure Metal Halide Lamps

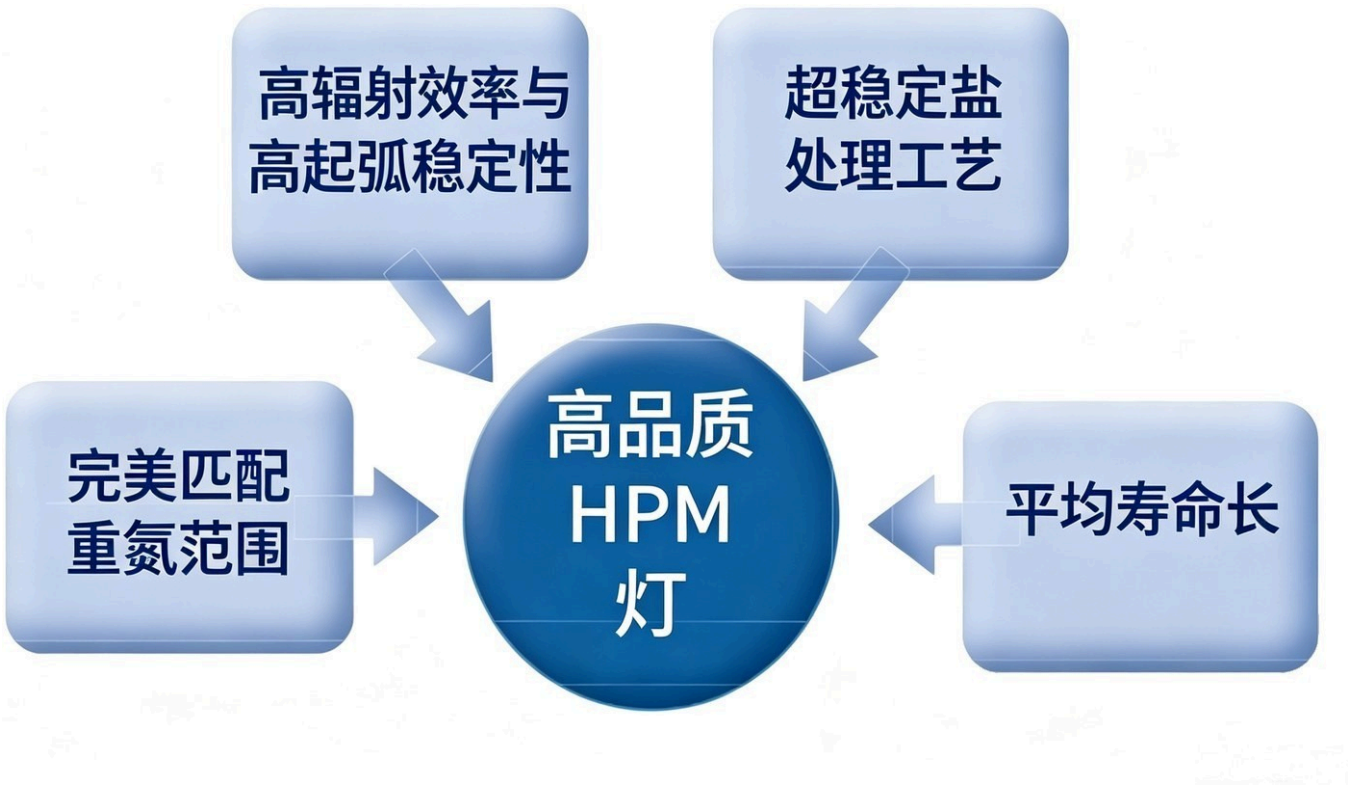
Specification Datasheet · TopRays Special Light Sources

The HPM series is a high-pressure metal halide discharge lamp formulated for the spectral response of diazo materials (230 – 450 nm, peak 320 – 440 nm). Structurally similar to the HPA series, it adjusts mercury content and additives to match the curing wavelengths of diazo media — an ideal source for large-format, high-quality printing and plotting in architecture and engineering.



Key Features

Item	Value
Spectral range	Diazo range (230 – 450 nm), main peak at 320 – 440 nm
Ozone generation	None
Bulb operating temperature	750 °C – 950 °C
Maximum pinch temperature	350 °C
Burning position	Horizontal(±10°)
Multi-power operation	Most models support standby / mid / full power switching



The core value of HPM lamps: a perfect match to the diazo sensitivity range and an ultra-stable salt treatment process.

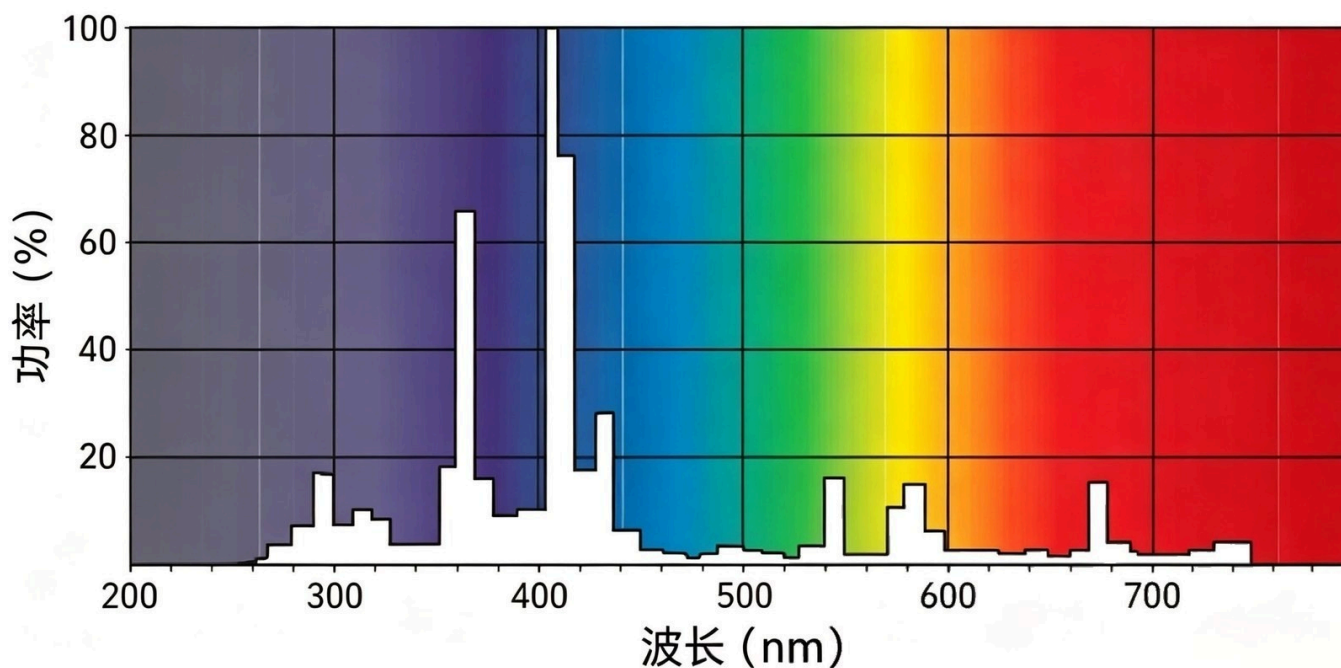
Typical Applications

- Diazo copying
- Large-format engineering / architectural printing and plotting
- UV curing of adhesives, resins and pigmented lacquers
- Contact copying of film / offset plates / PCBs

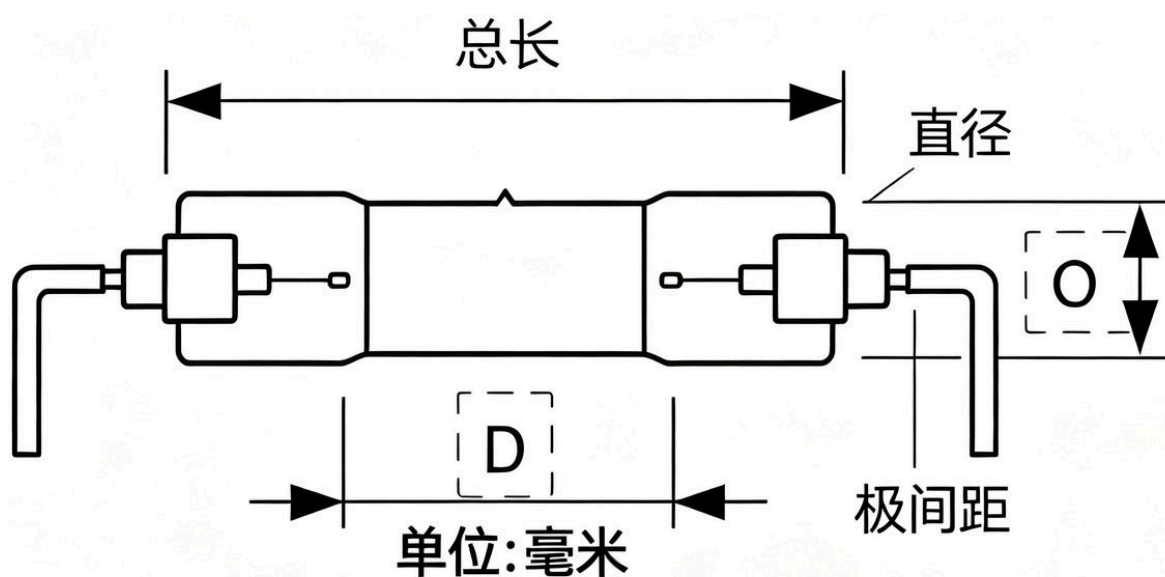
Specifications

Model	Power (W)	Voltage (V)	Current (A)	Arc length (mm)	Overall length (mm)	Diameter (mm)	Diazo irradiance* ($\mu\text{W}/\text{cm}^2$)	750 h maintenance	Base	Cable length
HPM 12	460	120	4.1	98	222 max	22 max	5800	80%	C14	300 mm
HPM 13	1000	125	8.6	147	228 max	28 max	8000	80%	C14	145 mm
HPM 15	1950	245	9.4	132	205 max	35 max	4100	90%	C14	295 mm
HPM 15 (long cable)	1950	245	9.4	132	205 max	35 max	4100	90%	C14	320 mm
HPM 17	2000	243	8.7	175	228 max	28 max	4600	80%	C14	320 mm
HPM 25	5000 / 1900 **	245	23.0 / 10 **	276	228 max	28 max	12000	90%	CU	190 mm
HPM 3000	3350	400	9.4	190	228 max	28 max	9000	90%	C10.5S	110 mm (T type)
HPM 4010	4000	310	13.5	203	332 max	32 max	10500	90%	C10.5S	190 mm
HPM 4020	4000	400	11.5	248	328 max	28 max	11500	90%	C10.5S	110 mm (T type)

HPM 功率光谱分布:



HPM series power spectral distribution: covering the 230 – 450 nm diazo sensitivity range with the main peak at 320 – 440 nm.



单位: 毫米

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

Note: diazo irradiance is measured perpendicular to the lamp axis at 1 m over 320 – 440 nm. For HPM 25, power / current values refer to full power / standby mode.