

## HBO Microlithography Lamps for Other Systems



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### Areas of application

- Microlithography

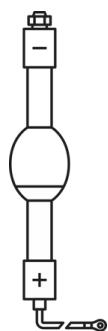
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### Product features and benefits

- High spectral intensity with peak irradiance at 365nm wavelength, making it ideal for microlithography
- Designed for long lasting performance
- Qualified with major microlithography equipment manufacturers
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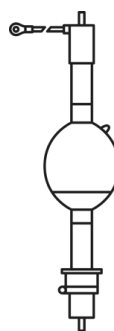


## Product family datasheet



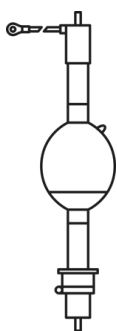
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HBO 3500WMR



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HBO 5000W/MF



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HBO 5000W/S

# Product family datasheet

## Technical data

| Product description         | Electrical Data |                 | Photometric Data          | Physical Attributes & Dimensions |
|-----------------------------|-----------------|-----------------|---------------------------|----------------------------------|
|                             | Nominal wattage | Nominal voltage | Light center length (LCL) | Length                           |
| HBO 350 W/S                 | 350 W           | 68 V            | 52.5 mm <sup>4)</sup>     | 127.0 mm                         |
| HBO 350 W <sup>1)</sup>     | 350 W           | 67.5 V          | 45.0 mm <sup>4)</sup>     | 128.0 mm                         |
| HBO 5000 W/HK               | 5000 W          | 70 V            | 152.5 mm <sup>4)</sup>    | 355.0 mm                         |
| HBO 1000 W/D                | 1000 W          | 37.7 V          | 89.5 mm <sup>4)</sup>     | 240.0 mm                         |
| HBO 201 W/HS-D2             | 201 W           | 25 V            |                           | 150.0 mm                         |
| HBO 3500 W/HK               | 3500 W          | 55 V            | 142.7 mm <sup>4)</sup>    | 280.0 mm                         |
| HBO 250 W/LS                | 250 W           | 39 V            | 62.0 mm <sup>4)</sup>     | 147.0 mm                         |
| HBO 500 W/A <sup>2)</sup>   | 500 W           | 60 V            | 73.0 mm <sup>4)</sup>     | 190.0 mm                         |
| HBO 500 W/B <sup>2)</sup>   | 500 W           | 48.5 V          | 78.5 mm <sup>4)</sup>     | 175.0 mm                         |
| HBO 1000W/DHL               | 1000 W          | 45 V            | 89.5 mm                   | 206.0 mm                         |
| HBO 3500 W/MR               | 3500 W          | 62 V            |                           | 290.0 mm                         |
| HBO 5000 W/MF <sup>3)</sup> | 5000 W          | 50 V            | 143.5 mm <sup>4)</sup>    | 360.0 mm                         |
| HBO 5000 W/S <sup>3)</sup>  | 5000 W          | 50 V            | 143.5 mm <sup>4)</sup>    | 360.0 mm                         |

<sup>1)</sup> Lamp suitable for pulse operation between 250...500 W. Maximum permissible power is 350 W for constant power operation. Duty cycle 12 h ON/30 min OFF

<sup>2)</sup> Duty cycle 12 h ON/30 min OFF

<sup>3)</sup> Lamp contains overpressure even in cold status - additional safety regulations, supplied with the lamps, have to be fulfilled. Please read Technical bulletin DO-SEM TB 004 carefully

<sup>4)</sup> Distance from end of base to tip of anode or cathode (cold)

## Product family datasheet

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### Safety advice

Because of their high luminance, UV radiation and high internal pressure (when hot) HBO lamps may only be operated in enclosed lamp casings specially constructed for the purpose. Mercury is released if the lamp breaks. Special safety precautions must be taken. More information is available on request or can be found in the leaflet included with the lamp or in the operating instructions.

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### Application advice

For more detailed application information and graphics please see product datasheet.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.