

## HBO Mercury short-arc lamps without reflector 50...200 W

Mercury short-arc lamps without reflector 50...200 W



### Areas of application

- Fluorescence microscopy
- UV curing
- A variety of light guide applications

### Product family benefits

- High radiance
- High radiant power in the UV and the visible range

### Product family features

- Multi-line spectrum



## Product family datasheet

### Technical data

Product description	Electrical data				Photometrical data		Dimensions & weight
	Nominal voltage	Type of current	Rated wattage	Nominal wattage	Luminous intensity	Nominal luminous flux	Diameter
HBO 50 W/AC 39 V	39.0 V	AC	50.00 W	50.00 W	230 cd <sup>1)</sup>		10.0 mm
HBO 50 W/AC 34 V	34.0 V	AC	50.00 W	50.00 W	230 cd <sup>1)</sup>		10.0 mm
HBO 50 W/3		DC	50.00 W	50.00 W	150 cd <sup>1)</sup>	1300 lm	9 mm
HBO 100 W/2		DC	100.00 W	100.00 W	260 cd <sup>1)</sup>	2200 lm	10.0 mm
HBO 103 W/2		DC	100.00 W	100.00 W	300 cd <sup>1)</sup>	2550 lm	10.0 mm
HBO 200 W/4		AC	200.00 W	200.00 W	950 cd <sup>1)</sup>	9500 lm	17.0 mm
HBO 202 W/4	57.0 ... 65.0 V	AC	202.00 W	200.00 W	1000 cd <sup>7)</sup>		18.0 mm
HBO 200 W/2 57 V	57.0 V	AC/DC	200.00 W	200.00 W	1000 cd <sup>1)</sup>	9500 lm	17.0 mm
HBO 200 W/DC 57 V	57.0 V	DC	200.00 W	200.00 W	1100 cd <sup>1)</sup>	10000 lm	17.0 mm
HBO 200 W/DC TM	57 V	DC	200.00 W	200.00 W	1000 cd <sup>1)</sup>	9500 lm	17.0 mm

Product description	Mounting length	Length with base excl. base pins/connection	Light center length (LCL)	Lifespan	Additional product data
				Lifespan	Base anode (standard designation)
HBO 50 W/AC 39 V	47.0 mm <sup>2)</sup>	47.00 mm <sup>2)</sup>	22.0 mm <sup>3)</sup>	100 h	SFa6-2
HBO 50 W/AC 34 V	47.0 mm <sup>2)</sup>	47.00 mm <sup>2)</sup>	22.0 mm <sup>3)</sup>	100 h	SFa6-2
HBO 50 W/3	47.0 mm <sup>2)</sup>	47.00 mm <sup>2)</sup>	22.0 mm <sup>3)</sup>	200 h	SFa8-2
HBO 100 W/2	82.0 mm <sup>2)</sup>	82.00 mm <sup>2)</sup>	43.0 mm <sup>3)</sup>	200 h	SFa9-2
HBO 103 W/2	82.0 mm <sup>2)</sup>	82.00 mm <sup>2)</sup>	43.0 mm <sup>3)</sup>	300 h	SFa9-2
HBO 200 W/4	102.0 mm <sup>2)</sup>	102.00 mm <sup>2)</sup>	40.0 mm <sup>3)</sup>	200 h	SFc10-4
HBO 202 W/4	102.0 mm <sup>2)</sup>	102.00 mm <sup>2)</sup>	40.0 mm <sup>3)</sup>	200 h	SFc10-4
HBO 200 W/2 57 V	102.0 mm <sup>2)</sup>	102.00 mm <sup>2)</sup>	40.0 mm <sup>3)</sup>	400 / 200 h <sup>8)</sup>	SFc10-4
HBO 200 W/DC 57 V	102.0 mm <sup>2)</sup>	102.00 mm <sup>2)</sup>	40.0 mm <sup>3)</sup>	1000 h	SFc10-4
HBO 200 W/DC TM	102.0 mm <sup>2)</sup>	102.00 mm <sup>2)</sup>	40.0 mm <sup>3)</sup>	400 h	SFc10-4 <sup>9)</sup>

Product description	Base cathode (standard designation)	Capabilities
		Burning position
HBO 50 W/AC 39 V	SFa6-2	s45 <sup>4)</sup>

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Product description	Base cathode (standard designation)	Capabilities
		Burning position
HBO 50 W/AC 34 V	SFa6-2	s45 <sup>4)</sup>
HBO 50 W/3	SFa6-2	s45 <sup>5)</sup>
HBO 100 W/2	SFa7.5-2	s90 <sup>5)</sup>
HBO 103 W/2	SFa7.5-2	s90 <sup>5)</sup>
HBO 200 W/4	SFc10-4	s20 <sup>6)</sup>
HBO 202 W/4	SFc10-4	s15 <sup>6)</sup>
HBO 200 W/2 57 V	SFc10-4	s90 <sup>5)</sup>
HBO 200 W/DC 57 V	SFc10-4	s90 <sup>5)</sup>
HBO 200 W/DC TM	SFc10-4 <sup>9)</sup>	s90 <sup>5)</sup>

<sup>1)</sup> Typical initial photometric value

<sup>2)</sup> Maximum

<sup>3)</sup> Distance from end of base to tip of anode (cold)

<sup>4)</sup> Observe "UP" marking

<sup>5)</sup> Anode underneath

<sup>6)</sup> Reference base pointing downwards (shorter shaft)

<sup>7)</sup> Minimum 850 cd

<sup>8)</sup> AC operation

<sup>9)</sup> With 8-32 UNC-3 B thread

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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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### References / Links

Further technical information on HBO lamps and information for manufacturers of operating equipment can be requested directly from OSRAM.

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### Disclaimer

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