HBO

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

Areas of application

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

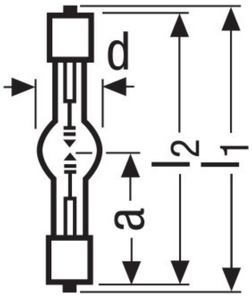
Product benefits

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

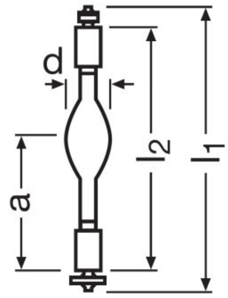
Product features

- Multi-line spectrum

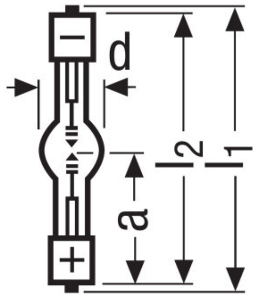
Product family datasheet



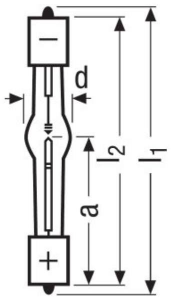
Product line drawing



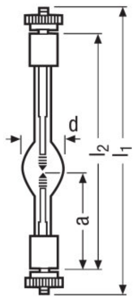
Product line drawing



Product line drawing



Product line drawing



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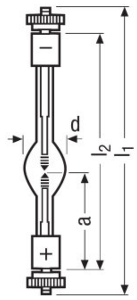

Product line drawing

Technical data

	Electrical data				Photometrical data		Dimensions & weight				Lifespan
Product description	**Nominal voltage**	**Type of current**	**Nominal wattage**	**Rated wattage**	**Luminous intensity**	**Nominal luminous flux**	**Diameter**	**Mounting length**	**Length with base excl. base pins/connection**	**Light center length (LCL)**	**Lifespan**
HBO 50 W/AC 39 V	39.0 V	AC	50.00 W	50.00 W	230 cd [1]		10.0 mm	47.0 mm [2]	47.00 mm [2]	22.0 mm [3]	100 h
HBO 50 W/AC 34 V	34.0 V	AC	50.00 W	50.00 W	230 cd [1]		10.0 mm	47.0 mm [2]	47.00 mm [2]	22.0 mm [3]	100 h
HBO 50 W/3		DC	50.00 W	50.00 W	150 cd [1]	1300 lm	9 mm	47.0 mm [2]	47.00 mm [2]	22.0 mm [3]	200 h
HBO 100 W/2		DC	100.00 W	100.00 W	260 cd [1]	2200 lm	10.0 mm	82.0 mm [2]	82.00 mm [2]	43.0 mm [3]	200 h
HBO 103 W/2		DC	100.00 W	100.00 W	300 cd [1]	2550 lm	10.0 mm	82.0 mm [2]	82.00 mm [2]	43.0 mm [3]	300 h
HBO 200 W/4		AC	200.00 W	200.00 W	950 cd [1]	9500 lm	17.0 mm	102.0 mm [2]	102.00 mm [2]	40.0 mm [3]	200 h
HBO 202 W/4	57.0 ... 65.0 V	AC	200.00 W	202.00 W	1000 cd [7]		18.0 mm	102.0 mm [2]	102.00 mm [2]	40.0 mm [3]	200 h
HBO 200 W/2 57 V	57.0 V	AC/DC	200.00 W	200.00 W	1000 cd [1]	9500 lm	17.0 mm	102.0 mm [2]	102.00 mm [2]	40.0 mm [3]	400 / 200 h [8]
HBO 200 W/DC 57 V	57.0 V	DC	200.00 W	200.00 W	1100 cd [1]	10000 lm	17.0 mm	102.0 mm [2]	102.00 mm [2]	40.0 mm [3]	1000 h
HBO 200 W/DC TM	57 V	DC	200.00 W	200.00 W	1000 cd [1]	9500 lm	17.0 mm	102.0 mm [2]	102.00 mm [2]	40.0 mm [3]	400 h

	Additional product data		Capabilities
Product description	**Base anode (standard designation)**	**Base cathode (standard designation)**	**Burning position**
HBO 50 W/AC 39 V	SFa6-2	SFa6-2	s45 [4]
HBO 50 W/AC 34 V	SFa6-2	SFa6-2	s45 [4]
HBO 50 W/3	SFa8-2	SFa6-2	s45 [5]

	Additional product data		Capabilities
Product description	**Base anode (standard designation)**	**Base cathode (standard designation)**	**Burning position**
HBO 100 W/2	SFa9-2	SFa7.5-2	s90 [5]
HBO 103 W/2	SFa9-2	SFa7.5-2	s90 [5]
HBO 200 W/4	SFc10-4	SFc10-4	s20 [6]
HBO 202 W/4	SFc10-4	SFc10-4	s15 [6]
HBO 200 W/2 57 V	SFc10-4	SFc10-4	s90 [5]
HBO 200 W/DC 57 V	SFc10-4	SFc10-4	s90 [5]
HBO 200 W/DC TM	SFc10-4 [9]	SFc10-4 [9]	s90 [5]

[1] Typical initial photometric value

[2] Maximum

[3] Distance from end of base to tip of anode (cold)

[4] Observe “UP” marking

[5] Anode underneath

[6] Reference base pointing downwards (shorter shaft)

[7] Minimum 850 cd

[8] AC operation

[9] With 8-32 UNC-3 B thread

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.

Application advice

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

References / Links

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

Disclaimer

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