

HBO-IC Microlithography lamps for Canon i-line systems

Microlithography lamps for Canon i-line systems



Product family datasheet

Technical data

Product description	Electrical data					Dimensions & weight	
	Nominal current	Nominal voltage	Type of current	Rated wattage	Nominal wattage	Diameter	Length
HBO 1002 W/CEL ¹⁾	16 A	47.0 V	DC	750.00 W	750.00 ... 1000.00 W	28.0 mm	175.0 mm
HBO 1500 W/CIEL	65 A	23.0 V	DC	1500.00 W	1500.00 W	52.0 mm	262.0 mm
HBO 2001 W/CIEL	77.00 A	26.0 V	DC	2000.00 W	2000.00 W	62.0 mm	327.0 mm
HBO 2002 W/MA	54 A	37.0 V	DC	2000.00 W	2000.00 W	62.0 mm	270.0 mm
HBO 2700 W/CIL ²⁾	110.00 A	26.0 V	DC	2700.00 W	2700.00 W	62.0 mm	332.0 mm
HBO 4500 W/CIL ²⁾	147.50 A	30 V	DC	4500.00 W	4500.00 W	85.0 mm	354.0 mm

Product description	Mounting length	Electrode gap cold	Length with base excl. base pins/connection	Light center length (LCL)	Capabilities
					Burning position
HBO 1002 W/CEL ¹⁾	157.0 mm	3.0 mm			Other ³⁾
HBO 1500 W/CIEL		4.0 mm			Other ³⁾
HBO 2001 W/CIEL		4.5 mm	307.00 mm	148.75 mm ⁴⁾	Other ⁸⁾
HBO 2002 W/MA		3.0 mm			Other ³⁾
HBO 2700 W/CIL ²⁾	332.0 mm	5.0 mm	307.00 mm	149.1 mm ⁴⁾	Other ⁸⁾
HBO 4500 W/CIL ²⁾		7.0 mm	330.00 mm	157.75 mm ⁴⁾	Other ⁸⁾

Product description	Cooling	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)		
		Date of Declaration	Primary Article Identifier	Candidate List Substance 1
HBO 1002 W/CEL ¹⁾		01-04-2022	4050300412634	Lead
HBO 1500 W/CIEL		04-03-2022	4050300538204 4050300624037	Lead
HBO 2001 W/CIEL	Forced ⁷⁾	01-01-2022	4050300972121	Lead
HBO 2002 W/MA		04-03-2022	4050300628240 4050300947259	Lead
HBO 2700 W/CIL ²⁾	Forced ⁷⁾	01-01-2022	4050300896588 4008321786838	Lead
HBO 4500 W/CIL ²⁾	Forced ⁷⁾	04-03-2022	4008321387455	Lead

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Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database	Additional product data
				Base anode (standard designation)
HBO 1002 W/CEL ¹⁾	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	5EC6FF55-9EF7-453C-AF73-6D14AD4C8C6B	
HBO 1500 W/CIEL	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	FEE49909-B541-4B46-AEAA-5ADFFEF5EEFC 61751f10-f0e4-4368-a7ca-91508cae74ba	
HBO 2001 W/CIEL	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	68376090-2d92-4e76-ba65-9555d035ba5a	SF33.5/50 ⁵⁾
HBO 2002 W/MA	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	af958d72-01f1-43c6-98a7-e4cb52024dea d3ee2a8f-7201-41c8-8fe6-b8140950a0a3	
HBO 2700 W/CIL ²⁾	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	65f8f183-407d-4000-b41f-fbefb99408fd 42d7a85e-dbe6-483f-9659-4d2b45293e9f	SF33.5/50 ⁵⁾
HBO 4500 W/CIL ²⁾	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	628eb817-c420-4811-85b9-6af88badc991	SFaX46-36/50 ⁵⁾

Product description	Base cathode (standard designation)
HBO 1002 W/CEL ¹⁾	
HBO 1500 W/CIEL	
HBO 2001 W/CIEL	SFa33.5-10/50 ⁶⁾
HBO 2002 W/MA	
HBO 2700 W/CIL ²⁾	SFa33.5-14/50 ⁶⁾
HBO 4500 W/CIL ²⁾	SFa36-16/50

¹⁾ Also available with 1,500 h lifespan: HBO 1002 W/CL (4050300324005)/Obtainable in Europe, Singapore and Japan only through Canon/Lamp suitable for pulsed operation between 700...1000 W/Maximum permissible power 750 W for constant power operation

²⁾ 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

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- 3) Anode underneath
- 4) Distance from end of base to tip of anode or cathode (cold)
- 5) With cable connection (M 8)
- 6) With cable connection (M6)
- 7) Maximum permissible base temperature: 200 °C
- 8) Anode on top

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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.

Application advice

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

Disclaimer

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