XBO ≤ 450 W Double End

Intense point source that provides a broad, continuous spectrum and has near perfect color rendering in the visible range

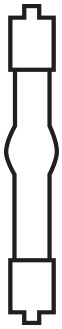
Areas of application

- Endoscopy
- Microscopy
- Surgical Headlamps
- Fiber Illumination
- Solar Simulation
- Imaging & Scanning

Product features and benefits

- High luminance / radiance with intense point source
- Broad, continuous spectral distribution
- High color rendering > 95
- High arc stability
- DC operation

XBO XENON SHORT ARC LAMPS



XBO XENON SHORT ARC LAMPS

XBO XENON SHORT ARC LAMPS

Technical data

	General Product Information			
Product description	**Product number (Americas)**	**Product name (Americas)**	**Family brand**	**Lamp type**
XBO 75 W/2	69231	XBO 75W/2 14V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 75 W/2 OFR [1]	69232	XBO 75W/2 OFR 14V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 100 W OFR [1]	69233	XBO 100W OFR 14V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 150 W/4 [2]	69238	XBO 150W/4 20V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 150 W/1	69234	XBO 150W/1 20V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 150 W/CR OFR [1]	69237	XBO 150W/CR OFR 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 150 W/1 OFR [1]				

		Electrical Data			
Product description	**Global order reference**	**Nominal wattage**	**Lamp voltage**	**Lamp current**	**Type of current**
XBO 75 W/2	XBO 75 W/2	75 W	12...16 V [3]	4.9...5.9 A	DC
XBO 75 W/2 OFR [1]	XBO 75 W/2 OFR	75 W	12...16 V [3]	4.9...5.9 A	DC
XBO 100 W OFR [1]	XBO 100 W OFR	100 W	12.8...14.4 V [3]	7.0...7.4 A	DC
XBO 150 W/4 [2]	XBO 150 W/4	150 W	17...21 V [3]	7.5 A	DC
XBO 150 W/1	XBO 150 W/1	150 W	17...21 V [3]	7.5 A	DC
XBO 150 W/CR OFR [1]	XBO 150 W/CR OFR	150 W	15...18 V [3]	8.5 A	DC
XBO 150 W/1 OFR [1]	XBO 150 W/1 OFR	150 W	17...21 V [3]	7.5 A	DC

	Photometric Data			
Product description	**Nominal luminous flux**	**Luminous intensity**	**Color temperature**	**Color rendering index Ra**
XBO 75 W/2	1000 lm	100 cd [4]	6000 K	98
XBO 75 W/2 OFR [1]	1000 lm	100 cd [4]	6000 K	98
XBO 100 W OFR [1]	1900 lm	270 cd [4]	6000 K	98
XBO 150 W/4 [2]	3000 lm	300 cd [4]	6000 K	98
XBO 150 W/1	3000 lm	300 cd [4]	6000 K	98
XBO 150 W/CR OFR [1]	2900 lm	290 cd [4]	6000 K	98
XBO 150 W/1 OFR [1]	3000 lm	300 cd [4]	6000 K	98

		Physical Attributes & Dimensions		
Product description	**Light center length (LCL)**	**Electrode gap (cold)**	**Base (anode)**	**Base (cathode)**
XBO 75 W/2	37.0 mm [5]	0.9 mm	SFa9-2	SFa7.5-2
XBO 75 W/2 OFR [1]	37.0 mm [5]	0.9 mm	SFa9-2	SFa7.5-2
XBO 100 W OFR [1]	44.5 mm [6]	0.9 mm	SFa9-2	SFa7.5-2
XBO 150 W/4 [2]	57.0 mm [5]	2.5 mm	SFc12-4	SFcX12-4

Product family datasheet

		Physical Attributes & Dimensions		
Product description	**Light center length (LCL)**	**Electrode gap (cold)**	**Base (anode)**	**Base (cathode)**
XBO 150 W/1	57.0 mm [5)]	2.5 mm	SFc12-4	SFcX12-4
XBO 150 W/CR OFR [1)]	57.0 mm [5)]	2.0 mm	SFc12-4	SFcX12-4
XBO 150 W/1 OFR [1)]	57.0 mm [5)]	2.5 mm	SFc12-4	SFcX12-4

Product description	**Diameter**	**Diameter (in)**	**Length**	**Product weight**
XBO 75 W/2	10.0 mm	39.331 in	90.0 mm	11.00 g
XBO 75 W/2 OFR [1)]	10.0 mm	39.331 in	90.0 mm	11.00 g
XBO 100 W OFR [1)]	11.0 mm	39.331 in	90.0 mm	12.00 g
XBO 150 W/4 [2)]	20.0 mm	39.331 in	150.0 mm	100.00 g
XBO 150 W/1	20.0 mm	39.331 in	150.0 mm	75.00 g
XBO 150 W/CR OFR [1)]	20.0 mm	39.331 in	150.0 mm	100.00 g
XBO 150 W/1 OFR [1)]	20.0 mm	39.331 in	150.0 mm	75.00 g

	Operating Conditions	**Lifetime Data**		
Product description	**Cooling**	**Nominal lifetime**	**Average life - vertical**	**Average life - horizontal**
XBO 75 W/2	Convection	400 hr	400 hr	400 hr
XBO 75 W/2 OFR [1)]	Convection	400 hr	400 hr	400 hr
XBO 100 W OFR [1)]	Convection		500 hr	500 hr
XBO 150 W/4 [2)]	Forced	1200 hr	1200 hr	
XBO 150 W/1	Forced	1200 hr	1200 hr	
XBO 150 W/CR OFR [1)]	Forced	2000 hr	3000 hr	1200 hr
XBO 150 W/1 OFR [1)]	Forced	1200 hr		

	Environmental & Regulatory Information **Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)**			
Product description	**Primary article identifier**	**Declaration no. in SCIP database**	**Candidate list substance 1**	**CAS No. of substance 1**
XBO 75 W/2	4050300508801	4ac7a63a-e5e9-4801-860e-a51fd4360dc8	Lead	7439-92-1
XBO 75 W/2 OFR [1)]	4050300508825	536f5044-6629-4551-b556-81347c0c9dfe	Lead	7439-92-1
XBO 100 W OFR [1)]	4008321386328	ac5c5363-ba12-4018-9516-c8896069720e	Lead	7439-92-1
XBO 150 W/4 [2)]	4050300508382	233c237a-3183-44a5-b9da-6dd186a65e22	Lead	7439-92-1
XBO 150 W/1	4050300508344	75ef93b8-ccc0-42e0-b2d3-612d7c703382	Lead	7439-92-1
XBO 150 W/CR OFR [1)]	4050300508788	f2c3d120-bbcb-487e-b775-f616dd801eac	Lead	7439-92-1
XBO 150 W/1 OFR [1)]	4050300508368	In work		

Product description	Safe use instruction
XBO 75 W/2	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 75 W/2 OFR [1)]	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 100 W OFR [1)]	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 150 W/4 [2)]	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 150 W/1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 150 W/CR OFR [1)]	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 150 W/1 OFR [1)]	

[1)] OFR = Ozone-free version

[2)] Lamp uses a special quality of quartz glass, known as SUPRASIL, which – in comparison to conventional quartz – provides higher transmission below 250 nm

[3)] Initial voltage range

[4)] Typical initial photometric value

[5)] Distance from end of base to tip of electrode (cold)

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

Safety advice

Because of their high luminance, UV radiation and high internal pressure in both the hot and cold state, XBO lamps must only be operated in appropriate enclosed casings. Always use the protective jackets supplied when handling these lamps. They may only be used as open lamps if appropriate safety measures are taken. More information is available on request or can be found in the leaflet included with the lamp or 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.