

XBO for cinema projection

Xenon short-arc lamps 450...10,000 W



Areas of application

- Classic 35 mm film projection
- Digital film and video projection
- Architectural and effect light ("Light Finger")
- Sunlight simulation

Product family benefits

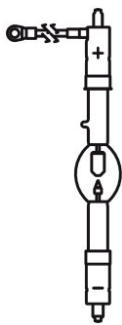
- Short arc with very high luminance for brighter screen illumination
- Constant color temperature of 6,000 K throughout the entire lamp lifetime
- Easy to maintain
- High arc stability
- Instant light on screen thanks to hot restart function
- Wide dimming range

Product family features

- Color temperature: approx. 6,000 K (Daylight)
- Wattage: 450...10,000 W
- Very good color rendering index: $R_a >$



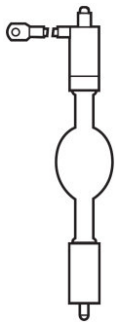
Product family datasheet



324319_XBO XENON SHORT ARC LAMP - 2000 WH XL



324321_XBO XENON SHORT ARC LAMP - 3000WHTP
CL



330832_XBO XENON SHORT ARC LAMPS

Product family datasheet

Technical data

	Electrical data		Dimensions & weight			Temperatures & operating conditions
Product description	Nominal current	Current control range	Length	Length with base excl. base pins/connection	Light center length (LCL)	Max. permitted ambient temp. pinch point
XBO 1000 W/HS OFR ¹⁾	50 A	30...55 A	235.0 mm	205.00 mm	95.0 mm ⁸⁾	230 °C
XBO 1000 W/HSC OFR ²⁾	50 A	30...55 A	236.0 mm	220.00 mm	95.0 mm ⁸⁾	230 °C
XBO 1000 W/HTP OFR ³⁾	45 A	30...55 A	330.0 mm	277.00 mm	123.0 mm ⁸⁾	230 °C
XBO 1600 W XL OFR	65 A	45...75 A	370.0 mm	322.00 mm	143.0 mm ⁸⁾	230 °C
XBO 1600 W/HSC XL OFR	6500 A	50...70 A	236.0 mm	222.00 mm	95.0 mm ⁸⁾	230 °C
XBO 2000 W/HS OFR ⁴⁾	80 A	50...85 A	342.0 mm	302.00 mm	145.0 mm ⁸⁾	230 °C
XBO 2000 W/HTT OFR ⁵⁾	2500 A	50...85 A	370.0 mm			230 °C
XBO 2000 W/SHSC OFR ⁶⁾	75.00 A	50...85 A	236.0 mm	220.00 mm	95.0 mm ⁸⁾	230 °C
XBO 2000 W/H XL OFR	7500 A	50...85 A	370.0 mm	322.00 mm	142.5 mm ⁸⁾	230 °C
XBO 2000 W/HTP XL OFR	7000 A	50...85 A	375.0 mm	322.00 mm	142.5 mm ⁸⁾	230 °C
XBO 2500 W/HS XL OFR	9000 A	70...100 A	342.0 mm	302.00 mm	145.0 mm ⁸⁾	230 °C
XBO 3000 W/HTC OFR ⁷⁾	3000 A	60...110 A	398.0 mm			230 °C
XBO 3000 W/H XL OFR	105 A	70...110 A	428.0 mm	382.00 mm	167.5 mm ⁸⁾	230 °C
XBO 3000 W/HS XL OFR	100 A	70...110 A	342.0 mm	302.00 mm	145.0 mm ⁸⁾	230 °C
XBO 3000 W/HTP XL OFR	100.00 A	70...110 A	405.0 mm	357.00 mm	162.5 mm ⁸⁾	230 °C
XBO	120 A		413.0 mm			
XBO 4000 W/HSA OFR	13500 A	80...150 A	416.0 mm	370.00 mm	171.0 mm ⁸⁾	230 °C
XBO 4000 W/HS XL OFR	135 A	80...150 A	416.0 mm	370.00 mm	171.0 mm ⁸⁾	230 °C
XBO 4000 W/HTP XL OFR	130 A	100...140 A	410.0 mm	382.00 mm	167.5 mm ⁸⁾	230 °C
XBO 4500 W/HS XL OFR	135 A	80...150 A	413.0 mm	370.00 mm	171.0 mm ⁸⁾	230 °C
XBO 4500 W/HTP XL OFR	135 A	80...150 A	410.0 mm	382.00 mm	165.0 mm ⁸⁾	230 °C
XBO 5000 W/H XL OFR	140 A	100...150 A	433.0 mm	382.00 mm	167.5 mm ⁸⁾	230 °C
XBO 5000 W/HBM XL OFR	140 A	100...150 A	439.0 mm	393.00 mm	170.5 mm ⁸⁾	230 °C

Product family datasheet

	Electrical data		Dimensions & weight			Temperatures & operating conditions
Product description	Nominal current	Current control range	Length	Length with base excl. base pins/connection	Light center length (LCL)	Max. permitted ambient temp. pinch point
XBO 6000 W/HS XL OFR	160 A	110...165 A	436.0 mm	393.00 mm	170.5 mm ⁸⁾	230 °C
XBO 6000 W/HTP XL OFR	160 A	110...165 A	430.0 mm	382.00 mm	165.0 mm ⁸⁾	230 °C
XBO 7000 W/HS XL OFR	160 A	110...165 A	436.0 mm	393.00 mm	170.5 mm ⁸⁾	230 °C
XBO 10000 W/HS OFR ¹⁾	19500 A	160...200 A	436.0 mm	393.00 mm	170.5 mm ⁸⁾	230 °C

	Lifespan	Additional product data		Capabilities
Product description	Lifespan	Base anode (standard designation)	Base cathode (standard designation)	Burning position
XBO 1000 W/HS OFR ¹⁾	2000 h	SFa27-11	SFcX27-8	s20/p20 ⁹⁾
XBO 1000 W/HSC OFR ²⁾	2000 h	SK27/50	SFcX27-8	s20/p20 ⁹⁾
XBO 1000 W/HTP OFR ³⁾	2400 h	SFa25-14	SFc25-14	s30/p30 ⁹⁾
XBO 1600 W XL OFR	3500 h	SFaX27-10	SFa27-12	Other ¹⁰⁾
XBO 1600 W/HSC XL OFR	2500 h	SK27/50	SFcX27-8	s20/p20 ⁹⁾
XBO 2000 W/HS OFR ⁴⁾	2400 h	SFaX27-9.5	SFa27-7.9	s30/p30 ⁹⁾
XBO 2000 W/HTT OFR ⁵⁾	2400 h	SK27/50	SFcX27-8	Other ⁹⁾
XBO 2000 W/SHSC OFR ⁶⁾	2000 h	SK27/50	SFcX27-8	s30/p30 ⁹⁾
XBO 2000 W/H XL OFR	3500 h	SFaX27-10	SFaX27-12	s30/p30 ⁹⁾
XBO 2000 W/HTP XL OFR	3500 h	SFa25-14	SFc25-14	s30/p30 ⁹⁾
XBO 2500 W/HS XL OFR	2200 h	SFaX27-9.5	SFa27-7.9	s30/p30 ⁹⁾
XBO 3000 W/HTC OFR ⁷⁾	1500 h	SFc28-13	SFc28-13	Other ⁹⁾
XBO 3000 W/H XL OFR	2200 h	SFaX30-13	SFaX30-14	s30/p30 ⁹⁾
XBO 3000 W/HS XL OFR	2200 h	SFaX30-9.5	SFa30-7.9	s30/p30 ⁹⁾
XBO 3000 W/HTP XL OFR	2200 h	SFa30-14	SFc27-14	s30/p30 ⁹⁾
XBO				h90
XBO 4000 W/HSA OFR	1000 h	SFaX30-9.5	SFa30-7.9	s20/p20 ⁹⁾
XBO 4000 W/HS XL OFR	1500 h	SFaX30-9.5	SFa30-7.9	s30/p30 ⁹⁾
XBO 4000 W/HTP XL OFR	1500 h	SFa30-14	SFc30-14	s20/p20 ⁹⁾
XBO 4500 W/HS XL OFR	1400 h	SFaX30-9.5	SFa30-7.9	s15/p15 ⁹⁾
XBO 4500 W/HTP XL OFR	1400 h	SFa27-14	SFc27-14	p15 ⁹⁾
XBO 5000 W/H XL OFR	1200 h	SFaX30-16	SFaX28-18	s15/p15 ⁹⁾
XBO 5000 W/HBM XL OFR	1200 h	SFaX30-9.5	SFa30-7.9	p15 ⁹⁾
XBO 6000 W/HS XL OFR	750 h	SFaX30-9.5	SFa30-7.9	s15/p15 ⁹⁾
XBO 6000 W/HTP XL OFR	750 h	SFa27-14	SFc27-14	p15 ⁹⁾

Product family datasheet

Product description	Lifespan	Additional product data		Capabilities
	Lifespan	Base anode (standard designation)	Base cathode (standard designation)	Burning position
XBO 7000 W/HS XL OFR	650 h	SFaX30-9.5	SFa30-7.9	s15/p15 ⁹⁾
XBO 10000 W/HS OFR ¹⁾	300 h	SFaX30-9.5	SFa30-7.9	s15/p15 ⁹⁾

Product description	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)			
	Date of Declaration	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1
XBO 1000 W/HS OFR ¹⁾	05-03-2024	4008321082114 4050300933566	Lead	7439-92-1
XBO 1000 W/HSC OFR ²⁾	05-03-2024	4008321082107	Lead	7439-92-1
XBO 1000 W/HTP OFR ³⁾	05-03-2024	4008321081353 4062172030243	Lead	7439-92-1
XBO 1600 W XL OFR	05-03-2024	4008321299918 4062172031714	Lead	7439-92-1
XBO 1600 W/HSC XL OFR	05-03-2024	4008321299932 4062172031721	Lead	7439-92-1
XBO 2000 W/HS OFR ⁴⁾	06-03-2024	4008321081360 4062172030359	Lead	7439-92-1
XBO 2000 W/HTT OFR ⁵⁾	05-03-2024	4008321064769 4008321650443		
XBO 2000 W/SHSC OFR ⁶⁾	05-03-2024	4008321082077	Lead	7439-92-1
XBO 2000 W/H XL OFR	05-03-2024	4008321211781	Lead	7439-92-1
XBO 2000 W/HTP XL OFR	05-03-2024	4008321244031 4008321650429	Lead	7439-92-1
XBO 2500 W/HS XL OFR	05-03-2024	4008321299963 4062172030250	Lead	7439-92-1
XBO 3000 W/HTC OFR ⁷⁾	05-03-2024	4008321064820		
XBO 3000 W/H XL OFR	05-03-2024	4008321226174	Lead	7439-92-1
XBO 3000 W/HS XL OFR	05-03-2024	4008321330031 4062172030311 4062172152341	Lead	7439-92-1
XBO 3000 W/HTP XL OFR	05-03-2024	4008321244017 4008321650436	Lead	7439-92-1
XBO	06-03-2024	4008321372703		
XBO 4000 W/HSA OFR	05-03-2024	4008321337030 4008321412980	Lead	7439-92-1
XBO 4000 W/HS XL OFR	05-03-2024	4008321201133 4008321412812	Lead	7439-92-1
XBO 4000 W/HTP XL OFR	05-03-2024	4008321244024 4008321412874	Lead	7439-92-1
XBO 4500 W/HS XL OFR	05-03-2024	4008321412881	Lead	7439-92-1
XBO 4500 W/HTP XL OFR	05-03-2024	4008321412898		
XBO 5000 W/H XL OFR	05-03-2024	4008321412829	Lead	7439-92-1
XBO 5000 W/HBM XL OFR	05-03-2024	4008321334916 4008321412836	Lead	7439-92-1
XBO 6000 W/HS XL OFR	05-03-2024	4008321412904 4062172030618	Lead	7439-92-1

Product family datasheet

Product description	Environmental information			
	Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)			
Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1
XBO 6000 W/HTP XL OFR	05-03-2024	4008321412911		
XBO 7000 W/HS XL OFR	05-03-2024	4008321412928 4062172030625	Lead	7439-92-1
XBO 10000 W/HS OFR ¹⁾	05-03-2024	4050300624532 4008321552327 4062172030724	Lead	7439-92-1

Product description	Safe Use Instruction	Declaration No. in SCIP database
XBO 1000 W/HS OFR ¹⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	22b5c075-11fc-41b0-ad60-dec034d8f30c
XBO 1000 W/HSC OFR ²⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	f094a128-1489-4dbf-8649-bb523f769078
XBO 1000 W/HTP OFR ³⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	4a09dcc0-a0da-4682-93fa-303d254e4c80
XBO 1600 W XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	c83dcc90-6023-4924-b0d8-b34998daa554
XBO 1600 W/HSC XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	49877f08-b6d6-461c-b64a-018655e8a602 7a9913f5-169b-4ced-8b20-4a10b8b6fd73
XBO 2000 W/HS OFR ⁴⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e8ef51c8-36d5-458d-aa43-bff7de28bede
XBO 2000 W/HTT OFR ⁵⁾		In work

Product family datasheet

Product description	Safe Use Instruction	Declaration No. in SCIP database
XBO 2000 W/SHSC OFR ⁶⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	d7d8f0b3-9cce-48bc-b9a2-a440e89f5b64
XBO 2000 W/H XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	9833f335-0b1f-45d1-96ec-3872939e7bed
XBO 2000 W/HTP XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	6289c378-8cb7-40d8-bd67-f74e947878c5
XBO 2500 W/HS XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	ea7f9ace-f767-4dd4-8383-1b55f8e488b7
XBO 3000 W/HTC OFR ⁷⁾		In work
XBO 3000 W/H XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	57f4a7ba-4fa1-44ab-8b28-00f5e4847066
XBO 3000 W/HS XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	dd2ddf15-037b-4473-8156-97498e721fb3 c331ba5b-e29f-4e83-9bdd-095d344154b8
XBO 3000 W/HTP XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	847c6873-a086-4887-b5a4-0fcb40e47dbc
XBO		In work
XBO 4000 W/HSA OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	0b6df52f-0b97-4d4d-bcc0-6d1dab9f13b9

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Product description	Safe Use Instruction	Declaration No. in SCIP database
XBO 4000 W/HS XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	65c64d0a-d452-470b-8914-c022a2c5a556
XBO 4000 W/HTP XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	35c99854-8d47-47b1-bfdc-a286862d25e2
XBO 4500 W/HS XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	2a7bfa41-544e-40aa-a314-c9fc5872b500
XBO 4500 W/HTP XL OFR		In work
XBO 5000 W/H XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	6666821c-6025-4ae2-9049-74872cf69c52
XBO 5000 W/HBM XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	72c018af-3320-4320-a45d-d7545789b35e
XBO 6000 W/HS XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	ff65d599-ce0d-4b3f-b2e1-ecbcefe3d8f1
XBO 6000 W/HTP XL OFR		In work
XBO 7000 W/HS XL OFR	The identification of the Candidate List substance is sufficient to allow safe use of the article.	1ed097d6-f451-4c5c-b29a-3f156fd7504f
XBO 10000 W/HS OFR ¹⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	7934C4E7-AD5D-4E20-9BAA-2349E600F6AD cb26f713-f336-4c5c-b8f4-f0f8d52a0f47

¹⁾ OFR = Ozone-free version/H = Suitable for horizontal burning position/S = Short

²⁾ OFR = Ozone-free version/H = Suitable for horizontal burning position/S = Short/C= Base with cable

Product family datasheet

³⁾ OFR = Ozone-free version/H = Suitable for horizontal burning position/TP = Cable with threaded pins

⁴⁾ H = Suitable for horizontal burning position/S = Short

⁵⁾ OFR = Ozone-free version/H = Suitable for horizontal burning position/TT = Two threaded pins

⁶⁾ OFR = Ozone-free version. SHSC = Extra short version for horizontal burning position, anode connection via cable (super short). Similar dimensions to XBO 1600 A/HSC OFR

⁷⁾ OFR = Ozone-free version/H = Suitable for horizontal burning position/TC= Thread and cable

⁸⁾ Distance from end of base to tip of electrode (cold)

⁹⁾ For vertical burning position: anode (+) on top

¹⁰⁾ Anode on top

Product family datasheet

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.