

## XBO for NEC Projectors

High performance, long lasting digital cinema lamps designed for NEC projectors

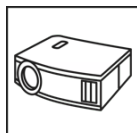
### Areas of application

- Digital Cinema Projection

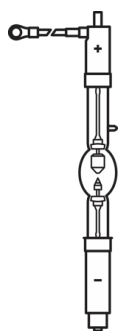


### Product features and benefits

- Extremely high luminance for digital cinema projection
- Color temperature approximately 6000K - simulates daylight
- Continuous spectrum in the visible range
- High color rendering > 95
- High arc stability
- DC operation
- Hot restart

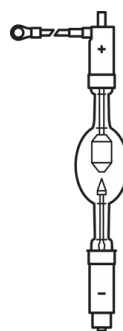


## Product family datasheet



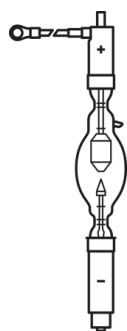
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XBO Xenon Short Arc Lamp



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XBO Digital Xenon Short Arc Lamp



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Xenon Short Arc Lamp

## Product family datasheet

### Technical data

Product description	General Product Information			
	Product number (Americas)	Product name (Americas)	Global order reference	Lamp type
XBO 1200 W/HPN OFR	69079	XBO 1200W/HPN 1/CS 1/SKU	XBO 1200 W/HPN OFR	
XBO 2000 W/HPN L OFR	68885	XBO 2000W/HPN L 1/CS 1/SKU	XBO 2000 W/HPN L OFR	
XBO 3000 W/HPN OFR	69084	XBO 3000W/HPN 1/CS 1/SKU	XBO 3000 W/HPN OFR	
XBO 3000 W/HPN L OFR	68840	XBO 3000W/HPN L 1/CS 1/SKU	XBO 3000 W/HPN L OFR	
XBO 4000 W/HPN OFR	69060	XBO 4000W/HPN 1/CS 1/SKU	XBO 4000 W/HPN OFR	
XBO 4000 W/HPN L OFR	69085	XBO 4000W/HPN L 1/CS 1/SKU	XBO 4000 W/HPN L OFR	XENON
XBO 4500 W/HPN OFR	69113	XBO 4500W/HPN 1/CS 1/SKU	XBO 4500 W/HPN OFR	
XBO 4500 W/HPN L OFR	69051	XBO 4500W/HPN L 1/CS 1/SKU	XBO 4500 W/HPN L OFR	
XBO 4000W/HPN XL OFR			XBO 4000W/HPN XL OFR	
XBO 6000 W/HPN OFR	69123	XBO 6000W/HPN OFR 1/CS 1/SKU	XBO 6000 W/HPN OFR	
XBO 6000 W/HPN L OFR	69054	XBO 6000W/HPN L 1/CS 1/SKU	XBO 6000 W/HPN L OFR	
XBO 7000 W/HPN OFR	55227	XBO 7000W/HPN 1/CS 1/SKU	XBO 7000 W/HPN OFR	

Product description	Electrical Data		Photometric Data	
	Nominal wattage	Current control range	Nominal luminous flux	Light center length (LCL)
XBO 1200 W/HPN OFR	1200 W	41...63 A	45000 lm	144.0 mm <sup>1)</sup>
XBO 2000 W/HPN L OFR	2000 W	60...85 A		144.0 mm <sup>1)</sup>
XBO 3000 W/HPN OFR	3000 W	77...108 A	140000 lm	144.0 mm <sup>1)</sup>
XBO 3000 W/HPN L OFR	3000 W	75...103 A		144.0 mm <sup>1)</sup>
XBO 4000 W/HPN OFR	4000 W	90...125 A	190000 lm	144.0 mm <sup>1)</sup>
XBO 4000 W/HPN L OFR	4000 W	90...125 A	185000 lm	144.0 mm <sup>1)</sup>
XBO 4500 W/HPN OFR	4500 W	108...150 A		171.5 mm <sup>1)</sup>
XBO 4500 W/HPN L OFR	4500 W	108...150 A		171.5 mm <sup>1)</sup>
XBO 4000W/HPN XL OFR	4000 W	92...132 A	185000 lm	144.0 mm <sup>1)</sup>

## Product family datasheet

Product description	Electrical Data		Photometric Data	
	Nominal wattage	Current control range	Nominal luminous flux	Light center length (LCL)
XBO 6000 W/HPN OFR	6000 W	120...163 A		171.5 mm <sup>1)</sup>
XBO 6000 W/HPN L OFR	6000 W	125...158 A	300000 lm	171.5 mm <sup>1)</sup>
XBO 7000 W/HPN OFR	7000 W	135...175 A		171.5 mm <sup>1)</sup>

Product description	Color temperature	Light center length (LCL) - (in)	Physical Attributes & Dimensions	
			Electrode gap (cold)	Base (anode)
XBO 1200 W/HPN OFR			3.5 mm	SFaX30-9.5
XBO 2000 W/HPN L OFR			4.5 mm	SFaX30-9.5
XBO 3000 W/HPN OFR	6000 K		4.5 mm	SFaX27-9.5
XBO 3000 W/HPN L OFR			5.0 mm	SFaX27-9.5
XBO 4000 W/HPN OFR		5.67 in	5.0 mm	SFaX27-9.5
XBO 4000 W/HPN L OFR	6000 K		6.0 mm	SFaX27-9.5
XBO 4500 W/HPN OFR			6.0 mm	SFaX30-9.5
XBO 4500 W/HPN L OFR			6.0 mm	SFaX30-9.5
XBO 4000W/HPN XL OFR			6.1 mm	SFaX27-9.5
XBO 6000 W/HPN OFR			7.5 mm	SFaX30-9.5
XBO 6000 W/HPN L OFR			8.0 mm	SFaX30-9.5
XBO 7000 W/HPN OFR			7.5 mm	SFaX30-9.5

Product description	Base (cathode)	Diameter (in)	Diameter	Length
XBO 1200 W/HPN OFR	SFa30-20	1.594 in	46.5 mm	345.0 mm
XBO 2000 W/HPN L OFR	SFa30-20		55.0 mm	345.0 mm
XBO 3000 W/HPN OFR	SFa27-20	2.165 in	55.0 mm	345.0 mm
XBO 3000 W/HPN L OFR	SFa27-20	2.362 in	60.0 mm	345.0 mm
XBO 4000 W/HPN OFR	SFa27-20	2.165 in	60.0 mm	345.0 mm
XBO 4000 W/HPN L OFR	SFa27-20	2.165 in	60.0 mm	345.0 mm
XBO 4500 W/HPN OFR	SFa30-20	2.362 in	60.0 mm	428.0 mm
XBO 4500 W/HPN L OFR	SFa30-20		60.0 mm	428.0 mm
XBO 4000W/HPN XL OFR	SFa27-20		60.0 mm	345.0 mm
XBO 6000 W/HPN OFR	SFa30-20		78.0 mm	428.0 mm
XBO 6000 W/HPN L OFR	SFa30-20		78.0 mm	428.0 mm
XBO 7000 W/HPN OFR	SFa30-20		78.0 mm	428.0 mm

Product description	Length with base excl. base pins/connection	Cable/wire length, input side	Connector: presence	Product weight
XBO 1200 W/HPN OFR	308.00 mm	235 mm	Yes	543.00 g
XBO 2000 W/HPN L OFR	308.00 mm	235 mm	Yes	550.00 g
XBO 3000 W/HPN OFR	308.00 mm	235 mm	Yes	601.00 g

## Product family datasheet

Product description	Length with base excl. base pins/connection	Cable/wire length, input side	Connector: presence	Product weight
XBO 3000 W/HPN L OFR	308.00 mm	235 mm	Yes	659.00 g
XBO 4000 W/HPN OFR	308.00 mm	235 mm	Yes	687.00 g
XBO 4000 W/HPN L OFR	308.00 mm	235 mm	Yes	671.00 g
XBO 4500 W/HPN OFR	389.00 mm	235 mm	Yes	880.00 g
XBO 4500 W/HPN L OFR	389.00 mm	235 mm	Yes	880.00 g
XBO 4000W/HPN XL OFR	308.00 mm	235 mm	Yes	664.00 g
XBO 6000 W/HPN OFR	389.00 mm	235 mm	Yes	1050.00 g
XBO 6000 W/HPN L OFR	389.00 mm	235 mm	Yes	1015.00 g
XBO 7000 W/HPN OFR	389.00 mm	235 mm	Yes	1023.00 g

Product description	Operating Conditions			Lifetime Data
	Burning position	Cooling	Max. permitted ambient temp. pinch point	Warranty hours
XBO 1200 W/HPN OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	3000 hrs
XBO 2000 W/HPN L OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	3000 hrs
XBO 3000 W/HPN OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	1500 hrs
XBO 3000 W/HPN L OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	1900 hrs
XBO 4000 W/HPN OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	650 hrs
XBO 4000 W/HPN L OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	1100 hrs
XBO 4500 W/HPN OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	1000 hrs
XBO 4500 W/HPN L OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	1300 hrs
XBO 4000W/HPN XL OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	1900 hrs
XBO 6000 W/HPN OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	650 hrs
XBO 6000 W/HPN L OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	800 hrs
XBO 7000 W/HPN OFR	s15/p15 <sup>2)</sup>	Forced	230 °C	300 hrs

Product description	Service warranty lifetime	Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)		
		Primary article identifier	Declaration no. in SCIP database	Candidate list substance 1
XBO 1200 W/HPN OFR	3500 hr	4008321741547   4062172030496	ff4d17fa-1438-4bc2-a606-af20217550d1 9216bf4f-e70a-4162-b102-76c4b3b8a81a	Lead
XBO 2000 W/HPN L OFR	3500 hr	4052899263437   4062172030458	4b8c3a0d-e347-4664-955c-0d693a373f8c	Lead
XBO 3000 W/HPN OFR	1900 hr	4062172030328   4008321756589	de6757a1-76fc-43b2-bab8-5e345c7e8aec 03daa791-d4cf-4aaa-a1a2-88c31129bca3	Lead

## Product family datasheet

		Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)		
Product description	Service warranty lifetime	Primary article identifier	Declaration no. in SCIP database	Candidate list substance 1
XBO 3000 W/HPN L OFR	2400 hr	4052899301528   4062172030533	1f032a80-9e5a-4431-a675-c7036e7ea79f	Lead
XBO 4000 W/HPN OFR	750 hr	4008321336774   4052899091931   4062172030267	5436255a-a46f-47df-b92e-f2c1c0ea2701	Lead
XBO 4000 W/HPN L OFR	1400 hr	4062172030274   4052899134829	e5c6268f-8ad3-41af-947c-83cfc899656d 2dee931a-3b3e-4fe9-b78f-d30e98231bdd	Lead
XBO 4500 W/HPN OFR	1300 hr	4008321756657   4062172030557	1fc58cd4-2db4-4dc8-8828-714ce9b1d0e5	Lead
XBO 4500 W/HPN L OFR	1500 hr	4062172030595   4052899343351	bdc206bb-8ab4-47d6-a813-e35a5e1b2612	Lead
XBO 4000W/HPN XL OFR	2100 hr	4062172225489	In work	
XBO 6000 W/HPN OFR	800 hr	4062172030649   4052899136373	dd124654-3cfe-4a72-80db-15b376f17bc1	Lead
XBO 6000 W/HPN L OFR	1200 hr	4062172111171   4052899343412   4062172030687	2c9d4d2e-189b-4cd8-8946-603008b0d3df	Lead
XBO 7000 W/HPN OFR	500 hr	4062172031691	3028d909-e4c3-4ea0-8a8b-a58e460e8446	Lead

Product description	CAS No. of substance 1	Safe use instruction
XBO 1200 W/HPN OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 2000 W/HPN L OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 3000 W/HPN OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

## Product family datasheet

Product description	CAS No. of substance 1	Safe use instruction
XBO 3000 W/HPN L OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 4000 W/HPN OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 4000 W/HPN L OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 4500 W/HPN OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 4500 W/HPN L OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 4000W/HPN XL OFR		
XBO 6000 W/HPN OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 6000 W/HPN L OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 7000 W/HPN OFR	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

<sup>1)</sup> Distance from end of base to tip of electrode (cold)

<sup>2)</sup> For vertical burning position: anode (+) on top

## Product family datasheet

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### Safety advice

Because of their high luminance, UV radiation and internal pressure in both the hot and cold state, XBO lamps may only be operated in enclosed lamp casings specially constructed for the purpose. Xenon lamps are highly explosive. When hot, xenon lamps can cause burn marks. They should only be handled when the lamp is at room temperature. Always use the protective jackets supplied when handling these lamps. When packing the lamps and when installing or removing the lamps without their protective jackets, always wear protective clothing (face shield with neck protector, protective jacket and lint-free, cut-resistant gloves). For more information see the relevant in-pack leaflets and operating instructions.

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### Application advice

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

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### Disclaimer

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