

XBO HPS for digital cinema projection

Xenon short-arc lamps

Areas of application

- Cinema projection



Product family features

- Short arc with highest luminance for brighter screen illumination
- A lifetime of reliable performances with constant 6000 K color temperature
- Easy to maintain
- High level of arc stability
- Hot restart and instant light on screen
- Dimmable in a wide range



Product family datasheet

Technical data

Product description	Electrical data		Dimensions & weight			
	Nominal wattage	Current control range	Diameter	Length	Length with base excl. base pins/connection	Light center length (LCL)
XBO 2000 W/HPS L OFR	200000 W	46...87 A	550 mm	3340 mm	297.00 mm	128.0 mm ¹⁾
XBO 3000 W/HPS OFR	300000 W	60...112 A	550 mm	3340 mm	297.00 mm	128.0 mm ¹⁾
XBO 4200 W/HPS OFR	420000 W	73...137 A	600 mm	3340 mm	297.00 mm	128.0 mm ¹⁾
XBO 4200 W/HPS LL	420000 W	69...131 A	600 mm	3340 mm	297.00 mm	128.0 mm ¹⁾

Product description	Cable/wire length, input side	Product weight	Cable length	Electrode gap cold	Temperatures & operating conditions
					Max. permitted ambient temp. pinch point
XBO 2000 W/HPS L OFR	195 mm	59510 g	1950	4.5 mm	230 °C
XBO 3000 W/HPS OFR	195 mm	63000 g	1950	4.5 mm	230 °C
XBO 4200 W/HPS OFR	195 mm	71700 g	1950	4.3 mm	230 °C
XBO 4200 W/HPS LL	195 mm	75000 g	1950	5.9 mm	230 °C

Product description	Lifespan		Additional product data	
	Lifespan	Service Warranty Lifetime	Base anode (standard designation)	Base cathode (standard designation)
XBO 2000 W/HPS L OFR	3000 h	3500 h	SFaX30-14/68	SFc30-20/50
XBO 3000 W/HPS OFR	1000 h	1300 h	SFaX30-14/68	SFc30-20/50
XBO 4200 W/HPS OFR	700 h	850 h	SFaX30-14/68	SFc30-20/50
XBO 4200 W/HPS LL	1000 h	1200 h	SFaX30-14/68	SFc30-20/50

Product description	Capabilities		Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
	Cooling	Burning position	Date of Declaration	Primary Article Identifier
XBO 2000 W/HPS L OFR	Forced	s15/p15 ²⁾	06-03-2024	4052899287761 4062172030342
XBO 3000 W/HPS OFR	Forced	s15/p15 ²⁾	05-03-2024	4052899213630 4062172030335 4062172232555
XBO 4200 W/HPS OFR	Forced	s15/p15 ²⁾	06-03-2024	4008321191670 4008321865670 4052899202092 4062172030298 4062172225571

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	Capabilities		Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Product description	Cooling	Burning position	Date of Declaration	Primary Article Identifier
XBO 4200 W/HPS LL	Forced	s15/p15 ²⁾	06-03-2024	4052899202108 4062172030281

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
XBO 2000 W/HPS L OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	c816075e-2194-4118-a481-54224e3feee4
XBO 3000 W/HPS OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	a79dca5f-6e91-4477-8572-f3ae4fd31a8f
XBO 4200 W/HPS OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	4776d977-ceff-4b5d-8b57-4242dd74650c
XBO 4200 W/HPS LL	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	4c4eb838-8b5a-4bca-9047-b88c703b363c

¹⁾ Distance from end of base to tip of electrode (cold)

²⁾ For vertical burning position: anode (+) on top

Product family datasheet

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.

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.