

XBO DHP 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	Cable/wire length, input side
XBO 1200 W/DHP OFR	120000 W	41...63 A	465 mm	3450 mm	295.00 mm	130 mm
XBO 1600 W/DHP OFR	160000 W	57...86 A	465 mm	3450 mm	295.00 mm	130 mm
XBO 2000 W/DHP L OFR	200000 W	64...95 A	550 mm	3450 mm	295.00 mm	130 mm
XBO 2200 W/DHP OFR	220000 W	68...95 A	520 mm	3450 mm	295.00 mm	130 mm
XBO 2500 W/DHP OFR	250000 W	63...95 A	550 mm	3450 mm	295.00 mm	130 mm
XBO 3000 W/DHS OFR	300000 W	77...113 A	600 mm	3420 mm	302.00 mm	155 mm
XBO 3000 W/DHP OFR	300000 W	77...113 A	550 mm	3450 mm	295.00 mm	130 mm
XBO 3000 W/DHP L OFR	300000 W	76...111 A	600 mm	3450 mm	295.00 mm	130 mm
XBO 3000 W/DHP XL OFR	300000 W	76...111 A	600 mm	3450 mm	295.00 mm	130 mm
XBO 4000 W/DHP L OFR	400000 W	95...137 A	600 mm	3450 mm	295.00 mm	130 mm
XBO 4000 W/DHP LL OFR	400000 W	95...137 A	600 mm	3450 mm	295.00 mm	130 mm
XBO 4000 W/DHP XL OFR	400000 W	95...137 A	6000 mm	3450 mm	295.00 mm	130 mm
XBO 4000 W/DHP OFR	420000 W	91...130 A	600 mm	3450 mm	295.00 mm	130 mm
XBO 4500 W/DHP OFR	450000 W	108...155 A	600 mm	4360 mm	393.00 mm	155 mm
XBO 4500 W/DHP L OFR	450000 W	108...155 A	600 mm	4360 mm	393.00 mm	155 mm
XBO 6000 W/DHP OFR	600000 W	131...174 A	780 mm	4360 mm	393.00 mm	155 mm
XBO 6000 W/DHP L OFR	600000 W	125...160 A	780 mm	4360 mm	393.00 mm	155 mm
XBO 6000 W/DHP XL OFR	600000 W	125...160 A	7800 mm	4360 mm	393.00 mm	155 mm
XBO 6500 W/DHP OFR	650000 W	133...173 A	780 mm	4360 mm	393.00 mm	155 mm
XBO 6500 W/DHP L OFR	650000 W	133...173 A	780 mm	4360 mm	393.00 mm	155 mm
XBO 6500 W/DHP XL OFR	6500.00 W	133...173 A	78.0 mm	436.0 mm	393.00 mm	155 mm
XBO 6500 W/DHP IX OFR	650000 W	133...173 A	785 mm	4360 mm	393.00 mm	155 mm
XBO 7000W/DHP OFR	700000 W	130...175 A	780 mm	4360 mm	393.00 mm	155 mm

Product description	Light center length (LCL)	Product weight	Cable length	Electrode gap cold	Temperatures & operating conditions
					Max. permitted ambient temp. pinch point
XBO 1200 W/DHP OFR	123.0 mm ¹⁾	48500 g	1300	3.5 mm	230 °C
XBO 1600 W/DHP OFR	123.0 mm ¹⁾	48500 g	1300	3.5 mm	230 °C
XBO 2000 W/DHP L OFR	123.0 mm ¹⁾	53000 g	1300	4.5 mm	230 °C
XBO 2200 W/DHP OFR	123.0 mm ¹⁾	53400 g	1300	3.7 mm	230 °C
XBO 2500 W/DHP OFR	123.0 mm ¹⁾	55800 g	1300	4.5 mm	230 °C
XBO 3000 W/DHS OFR	145.0 mm ¹⁾	59100 g	1550	6.0 mm	230 °C
XBO 3000 W/DHP OFR	123.0 mm ¹⁾	58100 g	1300	4.5 mm	230 °C
XBO 3000 W/DHP L OFR	123.0 mm ¹⁾	62300 g	1300	5.0 mm	230 °C
XBO 3000 W/DHP XL OFR	123.0 mm ¹⁾	62300 g	1300	5.0 mm	230 °C
XBO 4000 W/DHP L OFR	123.0 mm ¹⁾	64500 g	1300	6.0 mm	230 °C

Product family datasheet

Product description	Light center length (LCL)	Product weight	Cable length	Electrode gap cold	Temperatures & operating conditions
					Max. permitted ambient temp. pinch point
XBO 4000 W/DHP LL OFR	123.0 mm	64500 g	1300	6.3 mm	
XBO 4000 W/DHP XL OFR	123.0 mm ¹⁾	64500 g	1300	6.3 mm	230 °C
XBO 4000 W/DHP OFR	123.0 mm ¹⁾	67000 g	1300	6.0 mm	230 °C
XBO 4500 W/DHP OFR	170.5 mm ¹⁾	85300 g	1550	6.0 mm	230 °C
XBO 4500 W/DHP L OFR	170.5 mm ¹⁾	85300 g	1550	6.0 mm	230 °C
XBO 6000 W/DHP OFR	170.5 mm ¹⁾	100000 g	1550	7.5 mm	230 °C
XBO 6000 W/DHP L OFR	170.5 mm ¹⁾	105000 g	1550	7.5 mm	230 °C
XBO 6000 W/DHP XL OFR	170.5 mm ¹⁾	100000 g	1550	8.0 mm	230 °C
XBO 6500 W/DHP OFR	170.5 mm ¹⁾	102300 g	1550	7.5 mm	230 °C
XBO 6500 W/DHP L OFR	170.5 mm ¹⁾	102300 g	1550	8.0 mm	230 °C
XBO 6500 W/DHP XL OFR	170.5 mm ¹⁾	1023.00 g	1550	8.0 mm	230 °C
XBO 6500 W/DHP IX OFR	170.5 mm ¹⁾	100000 g	1550	8.1 mm	230 °C
XBO 7000W/DHP OFR	170.5 mm ¹⁾	102300 g	1550	7.5 mm	230 °C

Product description	Lifespan		Additional product data	
	Lifespan	Service Warranty Lifetime	Base anode (standard designation)	Base cathode (standard designation)
XBO 1200 W/DHP OFR	3000 h	3800 h	SFaX30-14	SFc30-16
XBO 1600 W/DHP OFR	3000 h	3800 h	SFaX30-14	SFc30-16
XBO 2000 W/DHP L OFR	3300 h	3500 h	SFaX30-14	SFc30-16
XBO 2200 W/DHP OFR	1500 h	2000 h	SFaX27-14x80	SFc27-16/55
XBO 2500 W/DHP OFR	1700 h	2000 h	SFaX27-14x80	SFc27-16/55
XBO 3000 W/DHS OFR	1500 h	2000 h	SFaX27-9.5	SFa27-7.9
XBO 3000 W/DHP OFR	1500 h	1900 h	SFaX27-14x80	SFc27-16/55
XBO 3000 W/DHP L OFR	1900 h	2100 h	SFaX27-14x80	SFc27-16/55
XBO 3000 W/DHP XL OFR	2200 h	2400 h	SFaX27-14x80	SFc27-16/55
XBO 4000 W/DHP L OFR	1300 h	1500 h	SFaX27-14x80	SFc27-16/55
XBO 4000 W/DHP LL OFR	1500 h	1900 h	SFaX27-14x80	SFc27-16/55
XBO 4000 W/DHP XL OFR	1900 h	2100 h	SFaX27-14x80	SFc27-16/55
XBO 4000 W/DHP OFR	1100 h	1400 h	SFaX27-14x80	SFc27-16/55
XBO 4500 W/DHP OFR	1000 h	1300 h	SFaX30-9.5	SFa30-7.9
XBO 4500 W/DHP L OFR	1300 h	1500 h	SFaX30-9.5	SFa30-7.9
XBO 6000 W/DHP OFR	650 h	800 h	SFaX30-9.5	SFa30-7.9
XBO 6000 W/DHP L OFR	900 h	1100 h	SFaX30-9.5	SFa30-7.9
XBO 6000 W/DHP XL OFR	1000 h	1200 h	SFaX30-9.5	SFa30-7.9
XBO 6500 W/DHP OFR	500 h	750 h	SFaX30-9.5	SFa30-7.9
XBO 6500 W/DHP L OFR	700 h	800 h	SFaX30-9.5	SFa30-7.9
XBO 6500 W/DHP XL OFR	900 h	1000 h	SFaX30-9.5	SFa30-7.9
XBO 6500 W/DHP IX OFR	1000 h	1200 h	SFa30-7.9	SFaX30-14
XBO 7000W/DHP OFR	400 h	500 h	SFaX30-9.5	SFa30-7.9

Product family datasheet

	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 1200 W/DHP OFR	Forced	s15/p15 ²⁾	05-03-2024	4008321396433 4052899497962 4062172030472
XBO 1600 W/DHP OFR	Forced	s15/p15 ²⁾	06-03-2024	4052899254831 4062172030465
XBO 2000 W/DHP L OFR	Forced	s15/p15 ²⁾	06-03-2024	4052899275638 4062172030427
XBO 2200 W/DHP OFR	Forced	s15/p15 ²⁾	06-03-2024	4008321865489 4062172030373
XBO 2500 W/DHP OFR	Forced	s15/p15 ²⁾	06-03-2024	4008321821706 4052899010413 4062172030380
XBO 3000 W/DHS OFR	Forced	s15/p15 ²⁾	05-03-2024	4008321199065 4008321330017 4062172030540
XBO 3000 W/DHP OFR	Forced	s15/p15 ²⁾	05-03-2024	4008321309532 4008321330048 4008321865496 4052899091818 4052899096073 4052899195783 4052899287785 4052899468191 4062172030410
XBO 3000 W/DHP L OFR	Forced	s15/p15 ²⁾	06-03-2024	4052899212886 4052899235908 4052899317277 4062172030502
XBO 3000 W/DHP XL OFR	Forced	s15/p15 ²⁾	07-03-2024	4062172092401
XBO 4000 W/DHP L OFR	Forced	p15/s15 ²⁾	06-03-2024	4052899212879 4052899235915 4052899468214 4062172030403
XBO 4000 W/DHP LL OFR	Forced	p15/s15 ²⁾	07-03-2024	4062172114080
XBO 4000 W/DHP XL OFR	Forced	s15/p15 ²⁾	07-03-2024	4062172092395
XBO 4000 W/DHP OFR	Forced	s15/p15 ²⁾	05-03-2024	4008321309686 4008321546272 4008321865526 4052899091825 4052899096080 4052899195790 4052899287792 4052899317208 10046135694810 4062172030397
XBO 4500 W/DHP OFR	Forced	s15/p15 ²⁾	05-03-2024	4008321199072 4008321633422 4062172030571
XBO 4500 W/DHP L OFR	Forced	s15/p15 ²⁾	06-03-2024	4052899343344 4062172030588

Product family datasheet

	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 6000 W/DHP OFR	Forced	s15/p15 ²⁾	05-03-2024	4008321549693 4052899144026 4062172030663
XBO 6000 W/DHP L OFR	Forced	s15/p15 ²⁾	06-03-2024	4052899087088 4052899343405 4062172030670
XBO 6000 W/DHP XL OFR	Forced	s15/p15 ²⁾	07-03-2024	4062172110839
XBO 6500 W/DHP OFR	Forced	s15/p15 ²⁾	05-03-2024	4008321676078 4062172030731
XBO 6500 W/DHP L OFR	Forced	s15/p15 ²⁾	06-03-2024	4052899448636 4062172030755
XBO 6500 W/DHP XL OFR	Forced	s15/p15 ²⁾	06-03-2024	4052899593640 4062172031684
XBO 6500 W/DHP IX OFR	Forced	h90 ²⁾	07-07-2023	4062172363792
XBO 7000W/DHP OFR	Forced	s15/p15 ²⁾	06-03-2024	4062172031707

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
XBO 1200 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	f6cc71e9-adae-4c95- afe0-07d36b5e74f6
XBO 1600 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	ddc0ca29-d545- 4244-bd3d- 01657e49e316
XBO 2000 W/DHP L OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	3cc8eb7d-934b-482f- ade0-0afdb83ac51b
XBO 2200 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	5e903ee1-3cc9-40f0- ae95-0a54da9c2b3a
XBO 2500 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	2699a8c3-f6d1- 4519-a2c4- 83464e509907

Product family datasheet

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
XBO 3000 W/DHS OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	0ad1e6ac-a107-4e86-a73c-0a8cdc49edb4 468df0c2-2da9-47b4-a001-357079e3d0c0
XBO 3000 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	A303E60B-72E8-4104-9C0C-1F16ADEED959 2C70619C-7452-40E1-9F11-72C36A77558D 34a49bce-cf7a-477b-8d7b-991718631ed4
XBO 3000 W/DHP L OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	42b5a623-65c3-4fc7-b272-e9973ba1c9ec
XBO 3000 W/DHP XL OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	4d1b0324-7408-4c16-afc9-0e4165c645a1
XBO 4000 W/DHP L OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	a182c938-75ef-44e7-a0e6-e8e301002b19 ee6fe08d-465e-439d-9156-a1830163f87d
XBO 4000 W/DHP LL OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	68536058-a0f0-4f39-8967-a173bfd19c5b
XBO 4000 W/DHP XL OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	cc43340f-d501-48a4-97e6-2064cf408c27
XBO 4000 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	ce588d4a-f4ef-4dda-8e54-ddab4457e440 56ff5a8b-6ea4-41c2-bd17-d898f6c185d1

Product family datasheet

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
XBO 4500 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	012f940f-18dd-409c-9473-04140360c548
XBO 4500 W/DHP L OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	3de76945-7771-4e03-9280-550799b927c9
XBO 6000 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	8566eac2-b860-4860-9c27-f7b8e2871b1f
XBO 6000 W/DHP L OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e1be3907-8f4f-4d48-b496-86874180bac4
XBO 6000 W/DHP XL OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e98aa7da-cb44-4008-ab03-b605fac43791
XBO 6500 W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	412959b3-e26e-4a82-89ba-3ce9a6fa908b
XBO 6500 W/DHP L OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	326fc61e-87e5-491e-a54a-876602402f4a
XBO 6500 W/DHP XL OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	0afbcbf5a-721a-4942-bd3d-6024b2eff6a3
XBO 6500 W/DHP IX OFR				In work

Product family datasheet

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
XBO 7000W/DHP OFR	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	885c4405-74b6- 4820-817d- 399a936e4918

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.