

## XBO for NEC Projectors

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

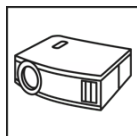
### Areas of application

- Digital Cinema Projection

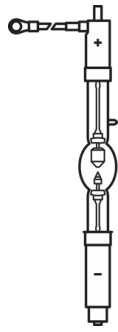


### Product features and benefits

- 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

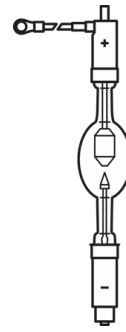


## Product family datasheet



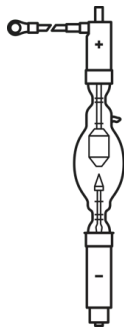
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XBO Xenon Short Arc Lamp



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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<br>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                       |
| XBO 3000 W/HPN L OFR | 2400 hr                   | 4052899301528   4062172030533   | 1f032a80-9e5a-4431-a675-c7036e7ea79f  | Lead                       |

## Product family datasheet

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

## Product family datasheet

| Product description  | CAS No. of substance<br>1 | Safe use instruction   |
|----------------------|---------------------------|--|
| 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.