

## 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 | 2000.00 W       | 46...87 A             | 55.0 mm             | 334.0 mm | 297.00 mm                                   | 128.0 mm <sup>1)</sup>    |
| XBO 3000 W/HPS OFR   | 3000.00 W       | 60...112 A            | 55.0 mm             | 334.0 mm | 297.00 mm                                   | 128.0 mm <sup>1)</sup>    |
| XBO 4200 W/HPS OFR   | 4200.00 W       | 73...137 A            | 60.0 mm             | 334.0 mm | 297.00 mm                                   | 128.0 mm <sup>1)</sup>    |
| XBO 4200 W/HPS LL    | 4200.00 W       | 69...131 A            | 60.0 mm             | 334.0 mm | 297.00 mm                                   | 128.0 mm <sup>1)</sup>    |

| Product description  | Cable/wire length, input side | Cable length | Electrode gap cold | Product weight | Temperature s & operating conditions     |
|----------------------|-------------------------------|--------------|--------------------|----------------|------------------------------------------|
|                      |                               |              |                    |                | Max. permitted ambient temp. pinch point |
| XBO 2000 W/HPS L OFR | 195 mm                        | 195.0        | 4.5 mm             | 595.10 g       | 230 °C                                   |
| XBO 3000 W/HPS OFR   | 195 mm                        | 195.0        | 4.5 mm             | 630.00 g       | 230 °C                                   |
| XBO 4200 W/HPS OFR   | 195 mm                        | 195.0        | 4.3 mm             | 717.00 g       | 230 °C                                   |
| XBO 4200 W/HPS LL    | 195 mm                        | 195.0        | 5.9 mm             | 750.00 g       | 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<br>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 <sup>2)</sup> | 06-03-2024                                                                                         | 4052899287761   4062172030342                 |
| XBO 3000 W/HPS OFR   | Forced       | s15/p15 <sup>2)</sup> | 05-03-2024                                                                                         | 4052899213630   4062172030335   4062172232555 |

Product family datasheet

|                     | Capabilities |                       | Environmental information<br>Information according Art. 33 of EU<br>Regulation (EC) 1907/2006 (REACH) |                                                                                           |
|---------------------|--------------|-----------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Product description | Cooling      | Burning position      | Date of Declaration                                                                                   | Primary Article Identifier                                                                |
| XBO 4200 W/HPS OFR  | Forced       | s15/p15 <sup>2)</sup> | 06-03-2024                                                                                            | 4008321191670  <br>4008321865670  <br>4052899202092  <br>4062172030298  <br>4062172225571 |
| XBO 4200 W/HPS LL   | Forced       | s15/p15 <sup>2)</sup> | 06-03-2024                                                                                            | 4052899202108  <br>4062172030281                                                          |

| Product description  | Candidate List<br>Substance 1 | CAS No. of substance<br>1 | Safe Use Instruction                                                                               | Declaration No. in<br>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 |

<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.