

XBO Xenon short-arc lamps without reflector

Xenon short-arc lamps without reflector



Product family benefits

- Very high luminance (point light source)
- Continual color quality, irrespective of lamp type and lamp wattage
- Constant light color throughout the life of the lamp
- Long lamp life

Product family features

- Color temperature: approx. 6,000 K (Daylight)
- High color rendering index: $R_a >$
- Continuous spectrum in the visible range
- High arc stability
- Hot restart capability
- Dimmable
- Instant light on starting





330835_XBO XENON SHORT ARC LAMPS



330836_XBO XENON SHORT ARC LAMPS



330837_XBO XENON SHORT ARC LAMPS

Product family datasheet

Technical data

| Product description | Electrical data | | | Photometrical data | Dimensions & weight | Lifespan |
|--------------------------------|-----------------|--------------|-----------------|-----------------------------|---------------------|-----------------------------|
| | Lamp wattage | Lamp current | Type of current | Luminance | Length | Lifespan |
| XBO 75 W/2 | 64 W | 49...59 A | DC | 40000 cd/cm ^{2 3)} | 900 mm | 400 h |
| XBO 75 W/2 OFR ¹⁾ | 64 W | 49...59 A | DC | 40000 cd/cm ^{2 3)} | 900 mm | 400 h |
| XBO 100 W OFR ¹⁾ | 85 W | 70...74 A | DC | 31000 cd/cm ^{2 3)} | 900 mm | 500 h |
| XBO 150 W/CR OFR ¹⁾ | 125 W | 85 A | DC | 20000 cd/cm ^{2 3)} | 1500 mm | 3000 / 1200 h ⁵⁾ |
| XBO 150 W/1 | 130 W | 75 A | DC | 15000 cd/cm ^{2 3)} | 1500 mm | 1200 h |
| XBO 150 W/4 ²⁾ | 130 W | 75 A | DC | 15000 cd/cm ^{2 3)} | 1500 mm | 1200 h |

| Product description | Additional product data | | Capabilities | |
|--------------------------------|-----------------------------------|-------------------------------------|--------------|--------------------|
| | Base anode (standard designation) | Base cathode (standard designation) | Cooling | Burning position |
| XBO 75 W/2 | SFa9-2 | SFa7.5-2 | Convection | s100 ⁴⁾ |
| XBO 75 W/2 OFR ¹⁾ | SFa9-2 | SFa7.5-2 | Convection | s100 ⁴⁾ |
| XBO 100 W OFR ¹⁾ | SFa9-2 | SFa7.5-2 | Convection | s100 ⁴⁾ |
| XBO 150 W/CR OFR ¹⁾ | SFc12-4 | SFcX12-4 | Forced | s15 ⁶⁾ |
| XBO 150 W/1 | SFc12-4 | SFcX12-4 | Forced | s15 ⁷⁾ |
| XBO 150 W/4 ²⁾ | SFc12-4 | SFcX12-4 | Forced | s15 ⁷⁾ |

| Product description | Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | | | |
|--------------------------------|--|----------------------------|----------------------------|------------------------|
| | Date of Declaration | Primary Article Identifier | Candidate List Substance 1 | CAS No. of substance 1 |
| XBO 75 W/2 | 05-03-2024 | 4050300508801 | Lead | 7439-92-1 |
| XBO 75 W/2 OFR ¹⁾ | 05-03-2024 | 4050300508825 | Lead | 7439-92-1 |
| XBO 100 W OFR ¹⁾ | 05-03-2024 | 4008321386328 | Lead | 7439-92-1 |
| XBO 150 W/CR OFR ¹⁾ | 05-03-2024 | 4050300508788 | Lead | 7439-92-1 |
| XBO 150 W/1 | 05-03-2024 | 4050300508344 | Lead | 7439-92-1 |
| XBO 150 W/4 ²⁾ | 05-03-2024 | 4050300508382 | Lead | 7439-92-1 |

| Product description | Safe Use Instruction | Declaration No. in SCIP database |
|---------------------|--|--------------------------------------|
| XBO 75 W/2 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 4ac7a63a-e5e9-4801-860e-a51fd4360dc8 |

Product family datasheet

| Product description | Safe Use Instruction | Declaration No. in SCIP database |
|--------------------------------|--|--------------------------------------|
| XBO 75 W/2 OFR ¹⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 536f5044-6629-4551-b556-81347c0c9dfe |
| XBO 100 W OFR ¹⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. | ac5c5363-ba12-4018-9516-c8896069720e |
| XBO 150 W/CR OFR ¹⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. | f2c3d120-bbcb-487e-b775-f616dd801eac |
| XBO 150 W/1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 75ef93b8-ccc0-42e0-b2d3-612d7c703382 |
| XBO 150 W/4 ²⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 233c237a-3183-44a5-b9da-6dd186a65e22 |

¹⁾ OFR = Ozone-free version

²⁾ Lamp uses a special quality of quartz glass, known as SUPRASIL, which – in comparison to conventional quartz – provides higher transmission below 250 nm

³⁾ Typical initial photometric value

⁴⁾ If vertical, then anode on top; up to 10° below horizontal, cathode on top

⁵⁾ In vertical burning position

⁶⁾ For vertical burning position: anode (+) on top

⁷⁾ Anode (+) on top

Product family datasheet

Safety advice

Because of their high luminance, UV radiation and high internal pressure in both the hot and cold state, XBO lamps must only be operated in appropriate enclosed casings. Always use the protective jackets supplied when handling these lamps. They may only be used as open lamps if appropriate safety measures are taken. More information is available on request or can be found in the leaflet included with the lamp or the operating instructions.

Application advice

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

References / Links

Further technical information on XBO lamps and information for manufacturers of operating equipment can be requested directly from OSRAM.

Disclaimer

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