

XBO \leq 450 W Double End

Intense point source that provides a broad, continuous spectrum and has near perfect color rendering in the visible range



Areas of application

- Endoscopy
- Microscopy
- Surgical Headlamps
- Fiber Illumination
- Solar Simulation
- Imaging & Scanning

Product features and benefits

- High luminance / radiance with intense point source
- Broad, continuous spectral distribution
- High color rendering > 95
- High arc stability
- DC operation



Product family datasheet



XBO XENON SHORT ARC LAMPS



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Product family datasheet

Technical data

| Product description | General Product Information | | | |
|--------------------------------|-----------------------------|----------------------------------|--------------|--------------|
| | Product number (Americas) | Product name (Americas) | Family brand | Lamp type |
| XBO 75 W/2 | 69231 | XBO 75W/2 14V 10/CS 1/SKU | XBO | DOUBLE ENDED |
| XBO 75 W/2 OFR ¹⁾ | 69232 | XBO 75W/2 OFR 14V 10/CS 1/SKU | XBO | DOUBLE ENDED |
| XBO 100 W OFR ¹⁾ | 69233 | XBO 100W OFR 14V 10/CS 1/SKU | XBO | DOUBLE ENDED |
| XBO 150 W/4 ²⁾ | 69238 | XBO 150W/4 20V 10/CS 1/SKU | XBO | DOUBLE ENDED |
| XBO 150 W/1 | 69234 | XBO 150W/1 20V 10/CS 1/SKU | XBO | DOUBLE ENDED |
| XBO 150 W/CR OFR ¹⁾ | 69237 | XBO 150W/CR OFR 10/CS 1/SKU | XBO | DOUBLE ENDED |

| Product description | Global order reference | Electrical Data | | | |
|--------------------------------|------------------------|-----------------|-----------------------------|--------------|-----------------|
| | | Nominal wattage | Lamp voltage | Lamp current | Type of current |
| XBO 75 W/2 | XBO 75 W/2 | 75 W | 12...16 V ³⁾ | 4.9...5.9 A | DC |
| XBO 75 W/2 OFR ¹⁾ | XBO 75 W/2 OFR | 75 W | 12...16 V ³⁾ | 4.9...5.9 A | DC |
| XBO 100 W OFR ¹⁾ | XBO 100 W OFR | 100 W | 12.8...14.4 V ³⁾ | 7.0...7.4 A | DC |
| XBO 150 W/4 ²⁾ | XBO 150 W/4 | 150 W | 17...21 V ³⁾ | 7.5 A | DC |
| XBO 150 W/1 | XBO 150 W/1 | 150 W | 17...21 V ³⁾ | 7.5 A | DC |
| XBO 150 W/CR OFR ¹⁾ | XBO 150 W/CR OFR | 150 W | 15...18 V ³⁾ | 8.5 A | DC |

| Product description | Photometric Data | | | |
|--------------------------------|-----------------------|----------------------|-------------------|--------------------------|
| | Nominal luminous flux | Luminous intensity | Color temperature | Color rendering index Ra |
| XBO 75 W/2 | 1000 lm | 100 cd ⁴⁾ | 6000 K | 98 |
| XBO 75 W/2 OFR ¹⁾ | 1000 lm | 100 cd ⁴⁾ | 6000 K | 98 |
| XBO 100 W OFR ¹⁾ | 1900 lm | 270 cd ⁴⁾ | 6000 K | 98 |
| XBO 150 W/4 ²⁾ | 3000 lm | 300 cd ⁴⁾ | 6000 K | 98 |
| XBO 150 W/1 | 3000 lm | 300 cd ⁴⁾ | 6000 K | 98 |
| XBO 150 W/CR OFR ¹⁾ | 2900 lm | 290 cd ⁴⁾ | 6000 K | 98 |

| Product description | Light center length (LCL) | Physical Attributes & Dimensions | | |
|--------------------------------|---------------------------|----------------------------------|--------------|----------------|
| | | Electrode gap (cold) | Base (anode) | Base (cathode) |
| XBO 75 W/2 | 37.0 mm ⁵⁾ | 0.9 mm | SFa9-2 | SFa7.5-2 |
| XBO 75 W/2 OFR ¹⁾ | 37.0 mm ⁵⁾ | 0.9 mm | SFa9-2 | SFa7.5-2 |
| XBO 100 W OFR ¹⁾ | 44.5 mm ⁶⁾ | 0.9 mm | SFa9-2 | SFa7.5-2 |
| XBO 150 W/4 ²⁾ | 57.0 mm ⁵⁾ | 2.5 mm | SFc12-4 | SFcX12-4 |
| XBO 150 W/1 | 57.0 mm ⁵⁾ | 2.5 mm | SFc12-4 | SFcX12-4 |
| XBO 150 W/CR OFR ¹⁾ | 57.0 mm ⁵⁾ | 2.0 mm | SFc12-4 | SFcX12-4 |

Product family datasheet

| Product description | Diameter (in) | Diameter | Length | Product weight |
|--------------------------------|---------------|----------|----------|----------------|
| XBO 75 W/2 | 39.331 in | 10.0 mm | 90.0 mm | 11.00 g |
| XBO 75 W/2 OFR ¹⁾ | 39.331 in | 10.0 mm | 90.0 mm | 11.00 g |
| XBO 100 W OFR ¹⁾ | 39.331 in | 11.0 mm | 90.0 mm | 12.00 g |
| XBO 150 W/4 ²⁾ | 39.331 in | 20.0 mm | 150.0 mm | 100.00 g |
| XBO 150 W/1 | 39.331 in | 20.0 mm | 150.0 mm | 75.00 g |
| XBO 150 W/CR OFR ¹⁾ | 39.331 in | 20.0 mm | 150.0 mm | 100.00 g |

| Product description | Operating Conditions | Lifetime Data | | |
|--------------------------------|----------------------|------------------|-------------------------|---------------------------|
| | Cooling | Nominal lifetime | Average life - vertical | Average life - horizontal |
| XBO 75 W/2 | Convection | 400 hr | 400 hr | 400 hr |
| XBO 75 W/2 OFR ¹⁾ | Convection | 400 hr | 400 hr | 400 hr |
| XBO 100 W OFR ¹⁾ | Convection | | 500 hr | 500 hr |
| XBO 150 W/4 ²⁾ | Forced | 1200 hr | 1200 hr | |
| XBO 150 W/1 | Forced | 1200 hr | 1200 hr | |
| XBO 150 W/CR OFR ¹⁾ | Forced | 2000 hr | 3000 hr | 1200 hr |

| Product description | Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | | | |
|--------------------------------|---|--------------------------------------|----------------------------|------------------------|
| | Primary article identifier | Declaration no. in SCIP database | Candidate list substance 1 | CAS No. of substance 1 |
| XBO 75 W/2 | 4050300508801 | 4ac7a63a-e5e9-4801-860e-a51fd4360dc8 | Lead | 7439-92-1 |
| XBO 75 W/2 OFR ¹⁾ | 4050300508825 | 536f5044-6629-4551-b556-81347c0c9dfe | Lead | 7439-92-1 |
| XBO 100 W OFR ¹⁾ | 4008321386328 | ac5c5363-ba12-4018-9516-c8896069720e | Lead | 7439-92-1 |
| XBO 150 W/4 ²⁾ | 4050300508382 | 233c237a-3183-44a5-b9da-6dd186a65e22 | Lead | 7439-92-1 |
| XBO 150 W/1 | 4050300508344 | 75ef93b8-ccc0-42e0-b2d3-612d7c703382 | Lead | 7439-92-1 |
| XBO 150 W/CR OFR ¹⁾ | 4050300508788 | f2c3d120-bbcb-487e-b775-f616dd801eac | Lead | 7439-92-1 |

| Product description | Safe use instruction |
|---------------------|--|
| XBO 75 W/2 | The identification of the Candidate List substance is sufficient to allow safe use of the article. |

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| Product description | Safe use instruction |
|--------------------------------|--|
| XBO 75 W/2 OFR ¹⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 100 W OFR ¹⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 150 W/4 ²⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 150 W/1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 150 W/CR OFR ¹⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. |

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⁾ Initial voltage range

⁴⁾ Typical initial photometric value

⁵⁾ Distance from end of base to tip of electrode (cold)

⁶⁾ Distance from end of base to tip of anode (cold)

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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.

Disclaimer

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