



## Xenon (Xe) Arc Lamps

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### Xenon (Xe) Arc Lamps

Xenon (Xe) arc lamps have a relatively smooth emission curve in the UV to visible spectrums, with characteristic wavelengths emitted from 750-1000 nm. Their sun-like emission spectrum and ~5800 K color temperature make them a popular choice for solar simulation, as well as absorption and fluorescence and source spectral scanning applications.

- Relatively Smooth Emission Curve in the UV to Visible
- Ozone Free, UV Enhanced, and High Stability Versions
- Sun-like Emission Spectrum

[See All Features](#)



| Compare   | Model   | Availability | Price   |
|---|---|--------------|---------|
|    | 6251NS Xenon Arc Lamp, 75 W, 0.25 x 0.5 mm Effective Arc Size     | In Stock     | \$477   |
|    | 6263 Xenon Arc Lamp, 75 W, Ozone Free                             | In Stock     | \$477   |
|    | 6257 Xenon Arc Lamp, 100 W, Ozone Free                            | In Stock     | \$477   |
|    | 6252 Xenon Arc Lamp, 100 W, Ozone Free, Integrated Full Reflector | In Stock     | \$1,197 |
|  | 6254 Xenon Arc Lamp, 150 W, UV Enhanced                           | In Stock     | \$477   |
|  | 6255 Xenon Arc Lamp, 150 W, Ozone Free                            | Contact Us   | \$717   |
|  | 6256 Xenon Arc Lamp, 150 W, 0.5 x 1.5 mm Effective Arc Size       | In Stock     | \$477   |
|  | 6259 Xenon Arc Lamp, 300 W, 0.7 x 2.4 mm Effective Arc Size       | In Stock     | \$946   |
|  | 6258 Xenon Arc Lamp, 300 W, Ozone Free                            | In Stock     | \$477   |
|  | 6278 Xenon Arc Lamp, 450 W, UV Enhanced                           | In Stock     | \$1,437 |



## Xenon (Xe) Arc Lamps

### Features

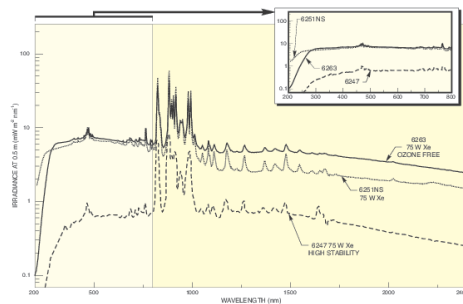
#### Ozone Free Xenon Lamps

UV wavelength emissions below ~260 nm create toxic ozone. Ideally, an arc lamp is operated outdoors or in a room with adequate ventilation to protect the user from ozone created. If this is not possible, an Ozone Eater should be used. However, if the application does not require wavelength emission below ~260 nm from the arc lamp, using an ozone free lamp is a convenient option. An ozone free lamp is coated to remove

#### High Stability UV Xenon Lamps

High stability Xe arc lamps are made of a higher quality cathode than typically used for xenon arc lamp construction. As a result, no arc wander occurs, allowing the lamp to maintain a consistent output intensity throughout its lifetime.

#### 75 W Xenon (Xe) Lamps



6247, 6251NS, 6263 Spectral Irradiance

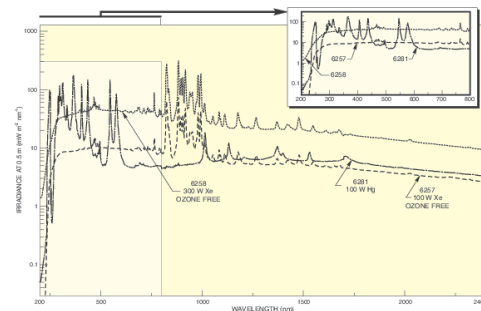
#### UV-Enhanced Xenon Lamps

When additional UV output from the xenon lamp is required, UV-enhanced lamps are available. These lamps provide the same visible to NIR performance of a standard Xe arc lamp while providing high intensity UV output as well.

#### Xenon Lamp Shelf Life

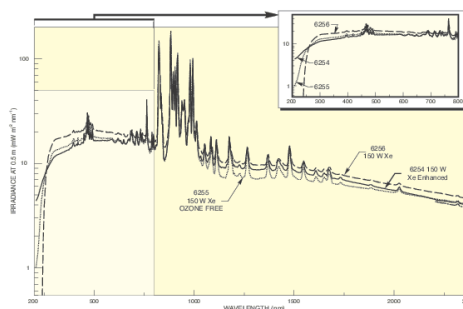
We recommend purchasing replacement xenon lamps only as needed. Xe arc lamps do have an unspecified shelf life, which over time can cause the end cap seals to leak and degrade lamp performance. Newport strives to keep Xe bulbs in stock to reduce lead times when ordering a replacement.

#### 100 W and 300 W Ozone Free Xenon Lamps



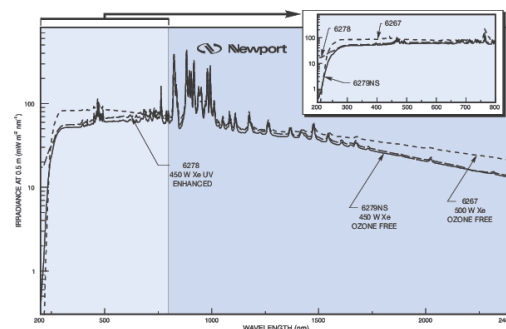
6257 and 6258 Spectral Irradiance

#### 150 W Xenon (Xe) Lamps



6254, 6255 and 6256 Spectral Irradiance

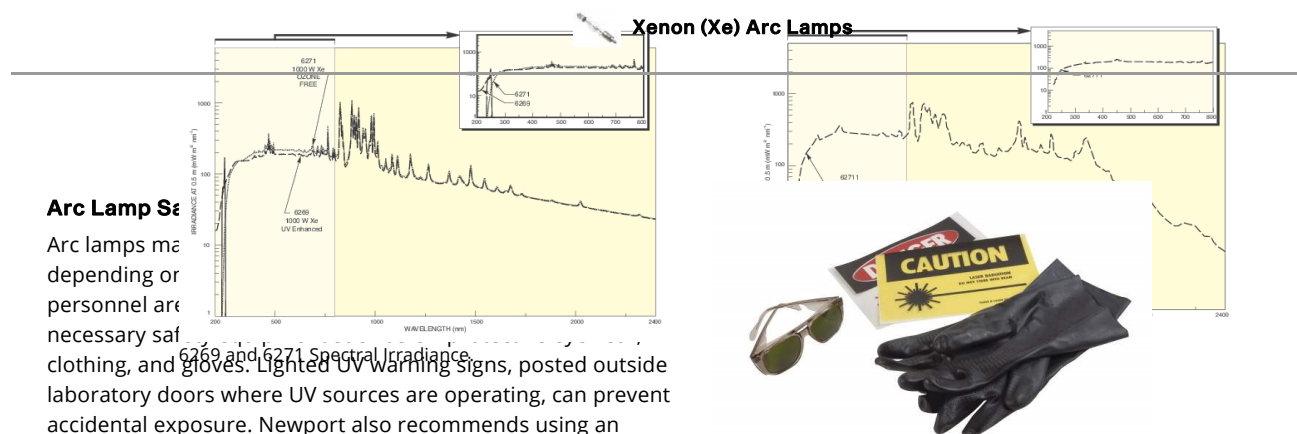
#### 450 to 500 W Xenon (Xe) Lamps



6278 and 6279NS Spectral Irradiance

#### 1000 W Xenon (Xe) Lamps

#### 1600 W Ozone Free Xe Lamp



### Arc Lamp Safety

Arc lamps must be handled with care depending on the power and wavelength of the light. Personnel are required to wear appropriate safety clothing, and gloves. Lighted UV Warning Signs, posted outside laboratory doors where UV sources are operating, can prevent accidental exposure. Newport also recommends using an electronic shutter to block the beam when the source is not in use but remains turned on. Alternatively, the beam can be safely contained by using beam tubes or fiber optic cables to deliver the light to a sample. It is recommended to vent the ozone that is produced by some lamp models to the outside or use an Ozone Eater.

## Compatibility

We offer complete light source systems as well as components for you to easily build your own systems.

When used with a Q Series lamp housing, the system will need the following components:

- Lamp
- Lamp Socket Adapter
- Lamp Housing
- Condensing Lens Assembly
- Rear Reflector
- Interface Kit
- Power Supply and appropriate cables

| Lamp Housing | Lamp Model | Lamp Socket Adapter | Condensing Lens Assembly Options | Rear Reflector | Interface Kit | Power Supply | Cable | Complete System       |
|--------------|------------|---------------------|----------------------------------|----------------|---------------|--------------|-------|-----------------------|
| 60000        | 6251NS     | 60014               | 60006                            | 60005          | 60025         | 69907        | 70050 | Low Power Q Series Xe |
|              | 6257       |                     | 60008                            |                |               |              |       |                       |
|              | 6257       |                     | 60076                            |                |               |              |       |                       |
|              | 6263       |                     | 67017                            |                |               |              |       |                       |

When used with a Research Series lamp housing, the system will need the following components:

- Lamp
- Lamp Socket Adapter
- Lamp Housing (includes rear reflector and condensing lens assembly)
- Power Supply and appropriate cables

















| Lamp Housing Options                             | Lamp Model | Lamp Socket Adapter | Power Supply | Cable | Complete System |
|--|------------|---------------------|--------------|-------|-----------------|
| 50-500 W<br><br>66901<br>66902<br>67001<br>67005 | 6251NS     | 66150               | 69907        | 70050 | Low Power Xe    |
|  | 6263       |                     |              |       |                 |
|  | 6257       |                     |              |       |                 |
|  | 6255       | 66151               |              |       |                 |
|  | 6254       |                     |              |       |                 |

\*70052 cable set is included in 69921 and 69923 housing.

| Xenon (Xe) Arc Lamps                                     |                 |                     |                |                     |                 |
|--|-----------------|---------------------|----------------|---------------------|-----------------|
| Lamp Housing Options                                     | Lamp Model      | Lamp Socket Adapter | Power Supply   | Cable               | Complete System |
|  | 6256<br>.....   | 66152<br>.....      | 69911<br>..... |                     | -               |
|  | 6259<br>.....   | 66160<br>.....      |                |                     | Medium Power Xe |
|  | 6258<br>.....   |                     |                |                     |                 |
| 450-1000 W<br><br>66921<br>.....<br>66923<br>.....       | 6279NS<br>..... | 6163<br>.....       | 69920<br>..... | 70052<br>.....<br>* | High Power Xe   |
|  | 6278<br>.....   |                     |                |                     |                 |
|  | 6271<br>.....   | 6162<br>.....       |                |                     |                 |
|  | 6269<br>.....   |                     |                |                     |                 |
| *70052 cable set is included in 69921 and 69923 housing. |                 |                     |                |                     |                 |

Accessories

UV Safety Equipment

| Compare   | Description  | Drawings, CAD & Specs   | Avail.   | Price         |
|---|--|---|----------|---------------|
|    | 49123 UV Protective Gloves, Size 8, Black Neoprene, Set of 3           |          | In Stock | \$76.80 US    |
|   | 49121 Ultraviolet Protective Gloves, Size 10, Black Neoprene, Set of 3 |          | In Stock | \$72 US       |
|  | 66087 Ozone Eater™, 110/220 VAC, 50/60 Hz                              |    | 1 Week   | \$1,437.60 US |
|  | 49126 Safety Goggles, UV Light Sources, Flexible Frame                 |    | In Stock | \$82.80 US    |