



XENON SHORT ARC LAMP

Product Catalogue

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Working

The Xenon (Xe) arc lamp is designed and developed to emit the high luminescence light in bright white colour. Since it contains a highly pure ionized Xe gas, hence it is called a Xenon lamp. It is also known by gas discharge lamp. Xenon short arc lamp is immensely powerful sources of luminescence and used in several different industries. It designed to use in spectrometers and similar optical applications. It produced a significant amount of light by generating a tiny pinhead-sized cloud of plasma, which formed at the tip of the two electrodes of the lamp.

Product Series – XSL

Technical Properties

1. Product Code - XSLT75

- Wattage – 75W
- Operating Voltage – 14V
- Operating Current – 5A
- Total Luminous Flux – 1400Lm
- Electrode Distance – 1.5mm
- Weight – 20gm
- Cooling Speed – 5M/sec

2. Product Code - XSLT150

- Wattage – 150W
- Operating Voltage – 18V
- Operating Current – 8.4Am
- Total Luminous Flux – 3200Lm
- Electrode Distance – 2.6mm
- Weight – 80gm
- Cooling Speed – 5M/sec

3. Product Code - XSLT350

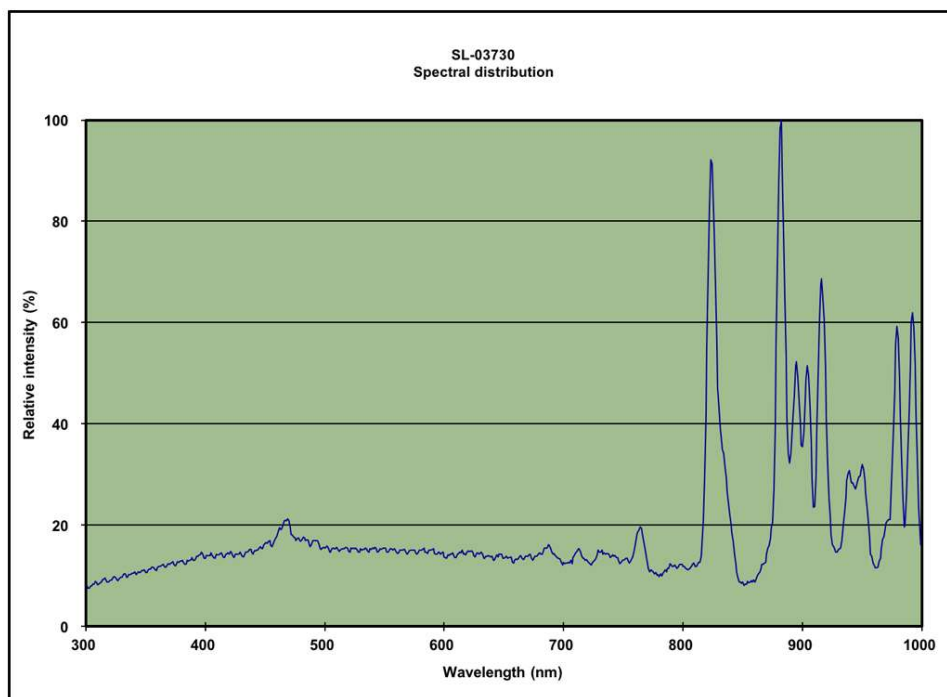
- Wattage –350W
- Operating Voltage –22V
- Operating Current –16A
- Total Luminous Flux –11500Lm
- Electrode Distance –3mm
- Weight –110gm
- Cooling Speed – 5M/sec

4. Product Code - XSLT500

- Wattage –500W
- Operating Voltage –20V
- Operating Current –16A
- Total Luminous Flux –14200Lm
- Electrode Distance –4mm
- Weight –200gm
- Cooling Speed – 5M/sec

Physical Properties

- Packing – Airtight protective shield
- Xe Purity – 99.98%
- MOC – Xenon, Quartz, Tungsten with Thorium as a dopant
- Light Colour – Bright White
- Average Life – 750 operating hours
- Storage – In safe vacuum packing



Lamp Variant : (Wattage)

75 W | 150 W | 350 W | 500 W | 1000 W

■ Important Note:

Customization can be provided as per the required wattages

Applications

- Solar Simulation
- Absorption
- Fluorescence
- Spectral scanning application
- daylight simulation industries
- movie projectors in theatres
- searchlights
- follow spots or spotlight
- Medical instruments
- Optical measurement devices
- Photo-heating devices
- IMAX technology



Features

- High luminescence
- 99.9% pure xenon gas
- High-end electrode material
- Hot restarting function
- High shelf life
- Constant provider of visible-range light spectrum
- Highly stable arc
- Instant glow on start
- Designed using advanced engineering for optimal application

Storage, Precautions & Disclaimer

This product should be stored at room temperature and Pressure, and its stability is indefinite. It should not be stored out of box for the safety purpose. These products are for R&D and industrial use, not for drug, household, personal, or other uses.

Packaging

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Handling & Safety

- The Power supply and ignitor is necessary for the working of the lamp.
- The anode (Thicker One) and cathode (Thinner One) connection should not be interchange, otherwise the lamp may get damaged.
- Air Cooling is must while lamp operation.
- The Red end wired should connect to the anode and black end wire should connect to the cathode.
- The operator should wear the UV goggle to protect from the UV radiations.

Working Mechanism?

When a voltage applied to both ends of the electrode, the light emits due to electricity passed through ionized xenon gas at high pressure. This process generates white light, which is similar to natural sunlight. The emission spectrum covers the UV and Visible light which is similar to the sun. The light intensity is in the range of 20,000 to 500,000 cd/cm² as per wattage. The wavelength range is measured in between 240nm to 850nm. The xenon lamp power supply is mandatory for long-life and continuous operation.



Feel Free to Reach Us

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