

LH300 Specifications

- Optical beam height: 4 inches
- Output beam size: 27 mm at 1 m
- Lens transmittance wavelength range: 200 - 2500nm
- Light ripple: <1% rms
- Flange series size: 1.5 inch female
- Operating temperature: 15 - 40°C
- Operating humidity: Up to 30%, non-condensing
- Operating environment: Typical laboratory conditions or N₂ purged (Ar purge not recommended)
- Dimensions: 5.25" x 7" x 12" (W x D x H without base)
- Weight: 5.80 lbs. (2.63 kg)
- Collimation angle: +/- 1° at 587 nm
- Lens material: UV fused silica
- Output beam power: ≥ 20 mW at 550 nm through 10 nm FWHM bandpass filter
- Storage temperature and humidity: 10 - 50°C, non-condensing up to 45%

LHC300 Specifications

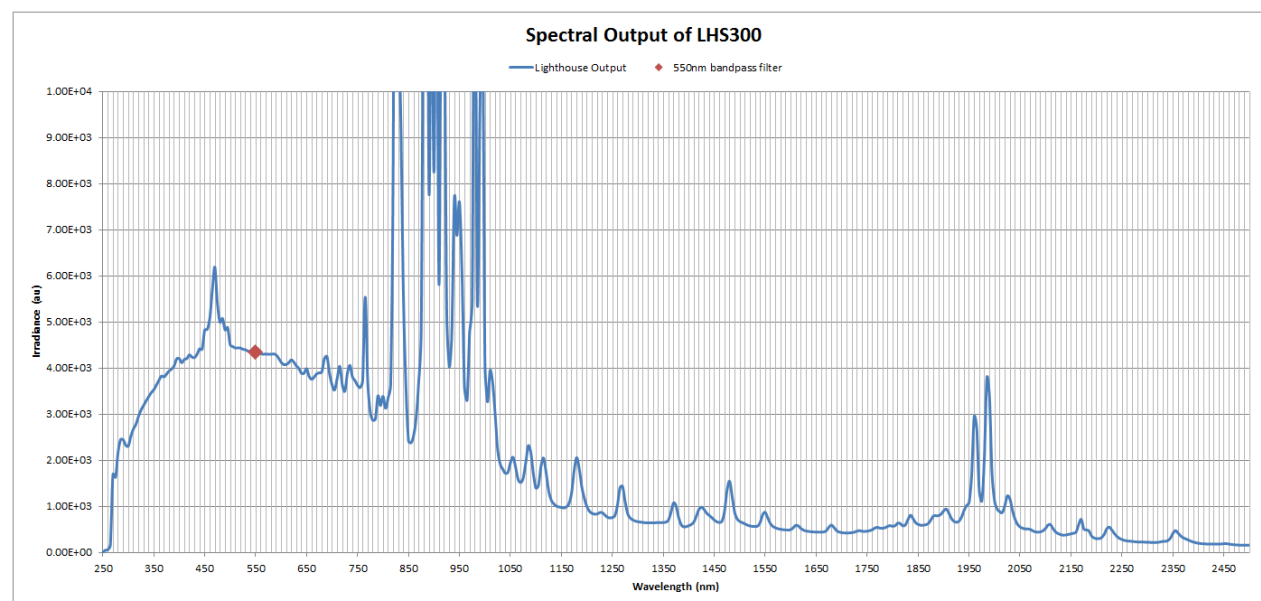
- Average life: 900 hours*
- Lamp type: Xenon, ozone free
- Lamp current: 15A
- Lamp voltage: 20V
- Lamp wattage: 300W
- Weight: 0.75 lbs. (0.34 kg)
- Dimensions: 4.125" x 3.05" x 7.5" (W x D x H)
- Lamp warm up time: 1 hour
- Arc gap: 2.6 mm
- Storage temperature and humidity: 10 - 50°C, non-condensing up to 45%

Ordering Information

Model	Description
LHS300	300W Lighthouse Pre-Aligned Source
LH300	300W Xenon Arc Lamp Housing, Pre-Aligned
LHC300	300W Xenon Arc Lamp Cartridge

Accessories

Model	Description
USFW-100	Universal Filter Wheel



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Pre-Aligned Arc Lamp Source



EXCELLENCE IN TECHNOLOGY

Oriel Instruments is a proven developer of light source solutions and is proud to introduce the latest advancement in the Research Arc Lamp Sources product family. These sources allow DC arc lamps to function with optimum performance while providing a safe operating environment for the user.

The LHS300 source is a complete 300W pre-aligned system that contains:

- LH300 pre-aligned lamp housing
- LHC300 replacement lamp cartridge
- OPS-A500 arc lamp power supply
- 70050 power supply cable

The LH300 is more than an aluminum enclosure for the lamp. The LH300 contains:

- Ignitor
- Condensing optics
- Lamp hour counter
- Lamp cooling fan
- Safety interlocks

- Easy to replace 300W Xenon lamp cartridge
- No lamp alignment necessary
- Built-in ignitor and lamp cooling fan with safety interlock features
- Lamp hour indicator integrated with lamp housing
- Compatible with Oriel Instruments' monochromators and filter wheels

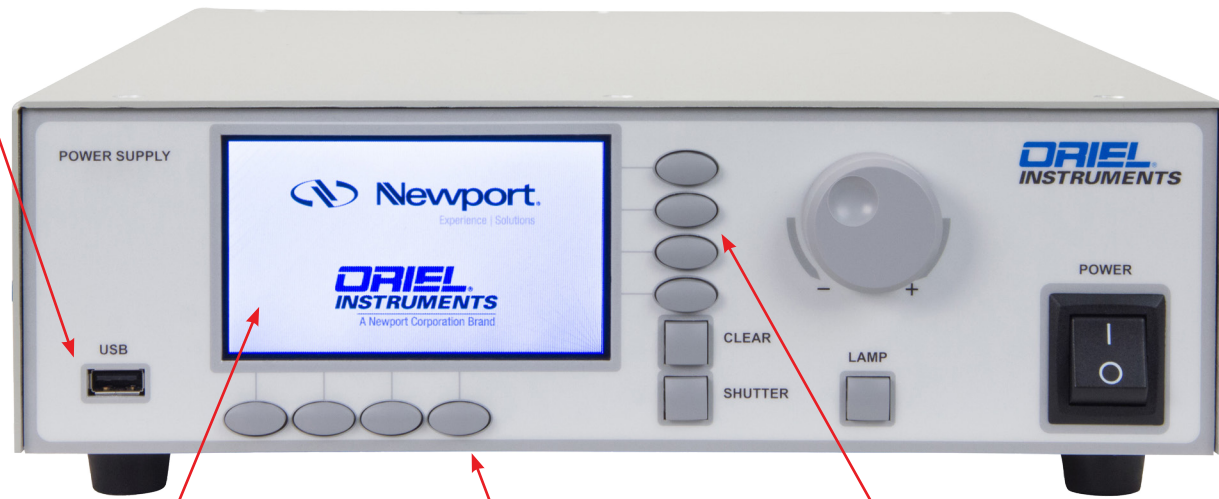
This model was designed for the 300W Xenon lamp cartridge, Model LHC300, making this solution the most straightforward and simple to use in the Oriel Research Arc Lamp Sources family. Simply install the cartridge, make the necessary electrical connections, secure the door, and power on the lamp. There is no need to align or focus the lamp as the output light has already been semi-collimated and ready to couple to any other Oriel Instruments product, such as a monochromator or filter wheel.

The LHC300 is the replacement cartridge containing a pre-aligned 300W Xenon arc lamp used in the LH300 housing. The cartridge allows for a simple, drop-in installation and eliminates the need for alignment.



USB and RS232 interface for remote lamp operation and monitoring

OPS-A500: High stability power supply for 200 - 500W DC arc lamps



Large LCD front panel for easy setup and monitoring

Capability to operate lamps in current, power, or intensity control modes

Store up to four lamp setup conditions

Straightforward electrical connections for simple, drop-in replacement

Removable door panel for lamp installation

LHC300: 300W Xenon, Ozone Free Replaceable Lamp Cartridge



Enclosed 300W Xe lamp

Built-in cooling fan to regulate temperature of the housing

LH300: 300W Pre-Aligned Research Arc Lamp Housing



Integrated lamp hour counter to monitor lifetime (on back)

1.5" flange couples to other Oriel components

Collimated light output

Whether the LH300 is a replacement for an Oriel 300W Research Arc Lamp Housing or building a new light source system, the 1.5 inch output flange ensures compatibility to all other Oriel Instruments' components such as a filter wheel or monochromator.

Due to the safety interlock circuitry built into the arc lamp housing design, the lamp cartridge won't ignite from the power supply unless the door panel is fully secured. This prevents accidental exposure as well as overheating of the housing.