

Arktis Laser Product Datasheet

LXS-1064 Picosecond Laser System



Series Specifications:

| | |
|--------------------|------------|
| Nominal Wavelength | 1064 nm |
| Output Type | Q-Switched |
| Laser Source Type | DPSS |

Overview:

The LXS-1064 picosecond laser offers an extremely short pulse duration on the order of 10-20 ps. The laser delivers these pulses at a fixed frequency of 48 MHz.

Laserglow products are currently being used by some of the world's top universities and other prominent research facilities.

Key Features:

- The shortest pulse duration offered by Laserglow
- Efficient air/thermoelectric cooling, no water chiller required
- Runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- FDA/CDRH Compliant Class IV enclosure

Package Includes:

- Laser Head
- Driver/Power Supply

Specifications:

This spec sheet has been generated specifically for part number XA6-K, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to XA6-K have been highlighted below in **red + bold**.


| | |
|--|-----------------------------------|
| Output Power (W) | 1, 2, 4, 6, 8, 10 |
| Single Pulse Energy (µJ) | 0.16, 1 |
| Optimal Pulse Frequency (Hz) | 48,000,000 |
| Output Power Stability (%RMS/4h) | <3, <5 |
| Central Wavelength (nm) | 1064 |
| Wavelength Tolerance (+/- nm) | 1 |
| Divergence (mrad, full angle) | <3 |
| Beam Dimensions (mm, 1/e ²) | 1.5 |
| Warm-up Time (minutes) | 10 |
| Avg. Pulse Duration (ns) | 0.01 |
| Operating Temperature Range (°C) | 10 to 35 |
| Minimum Pulsing Frequency (Hz) | 48,000,000 |
| Max. Power Input Duty Cycle | 100% |
| Standard Warranty (months) | 12 |
| MTTF (operational hours) | 10000 |
| Beam Height from Base Plate (mm) | 57 |
| Dimensions of Product or Laser Head (mm) | 581 (l) x 313 (w) x 92 (h) |

CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.

Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

Power Supply Options:

These lasers are available with several different power supply options. The model that you have selected is highlighted below, and any other options are shown for easy reference.

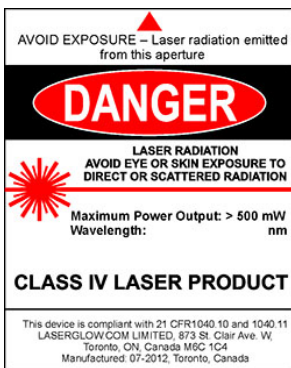
| <div>FDA-Compliant LabSpec</div> <div></div> | Power Supply Type: | FA | FK |
|---|--------------------------|-----------------------------|-----------------------------|
| | Input Power | 85v to 264v | 85v to 264v |
| | Power Supply Weight (kg) | 2.6 | 5.2 |
| | Dimensions (mm) | 268 (l) x 145 (w) x 106 (h) | 307 (l) x 168 (w) x 123 (h) |

*Power supply may not be exactly as shown, see dimensional drawings on next 2 pages.

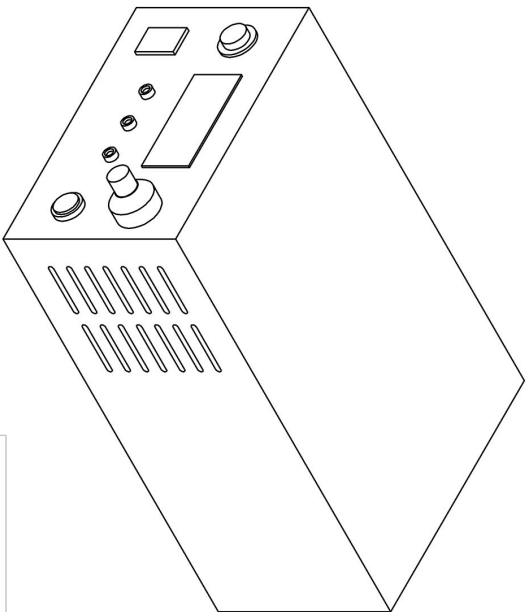
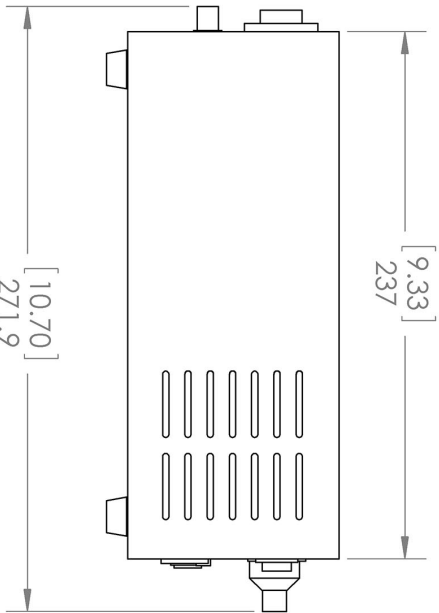
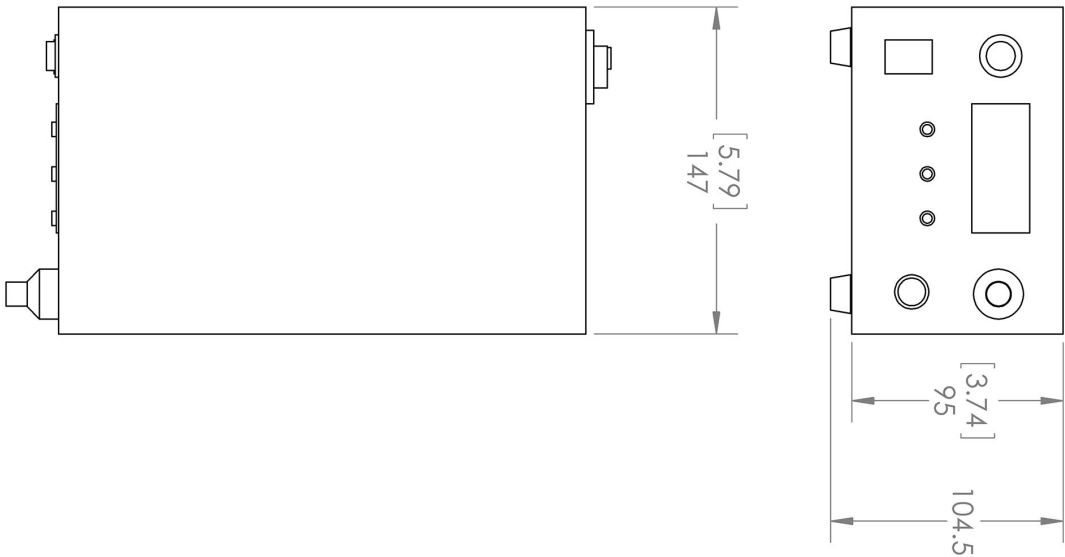
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:

The model you have selected (XA6-K) requires the following safety label(s):



Dimensional Drawing - Power Supply Form Factor: FA:



| | |
|--|--------------|
| Laserglow Technologies | |
| TITLE: | |
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM(INCH) TOLERANCES: +/- 0.75 MM | |
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| Power Supply FA/FO/FT/FV REV 1 | SCALE: 1:3 |
| | SHEET 1 OF 1 |

Accessories:

The most popular accessories for model XA6-K are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

| Part Number | Description | |
|-------------|-------------|--|
|-------------|-------------|--|

FOR MORE INFORMATION PLEASE CONTACT:

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E&OE: Data included in this sheet may be subject to change without notice.

Please confirm critical specifications with our staff prior to ordering.