

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.

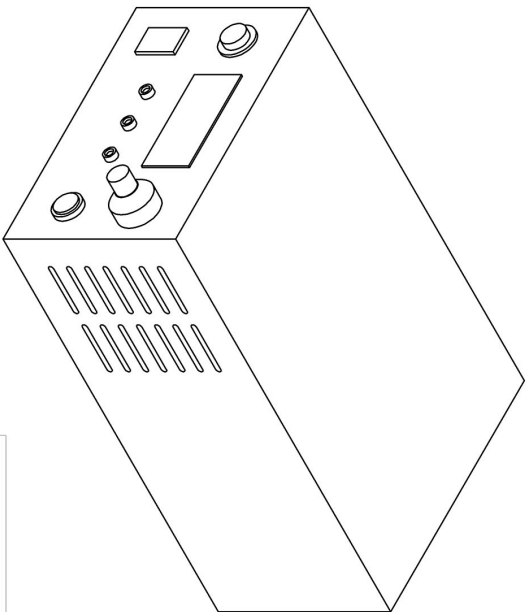
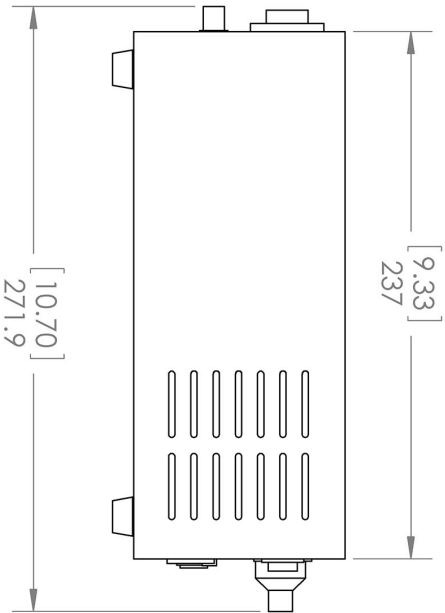
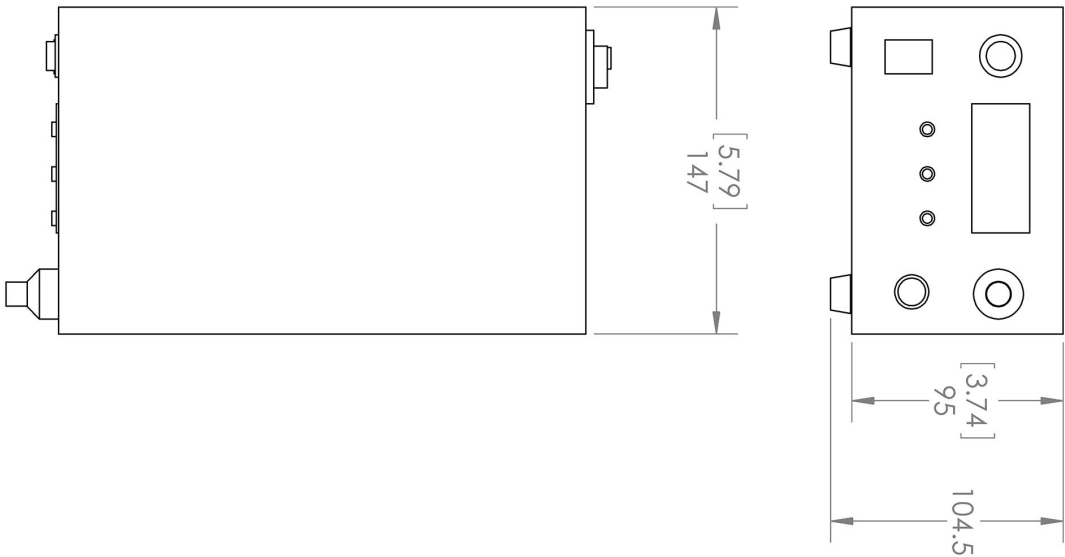
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

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	
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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.