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 and 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.

	Power Supply Type:	FA	FK
FDA-Compliant LabSpec 	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.

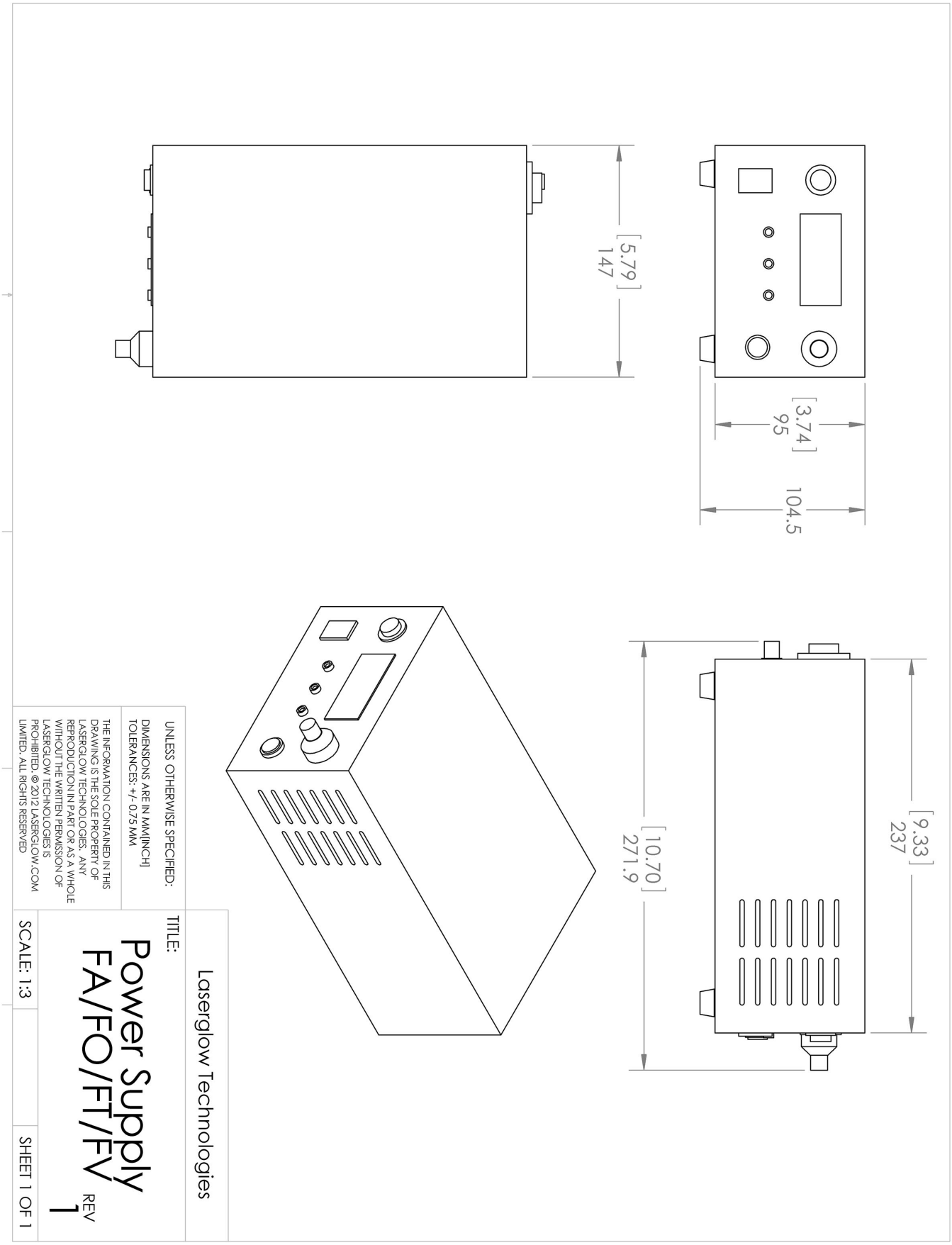
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:

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



Dimensional Drawing - Power Supply Form Factor: FA:



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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Please confirm critical specifications with our staff prior to ordering.