

# Arktis Laser Product Datasheet

## LRS-00360 DPSS Laser System



### Series Specifications:

Nominal Wavelength	360 nm
Output Type	CW
Laser Source Type	DPSS

### Overview:

The LRS-0360 Series of Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring up to 200 mW of 360 nm UV laser light with a long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for fluorescence excitation and a broad spectrum of other applications. The driver is available as a complete FDA-compliant system or as an O.E.M. component with significantly reduced dimensions.

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

### Key Features:

- Air cooled - no need for water cooling or external chiller
- Lightweight, compact design
- Efficient DPSS technology runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- TTL and Analog modulation (input via BNC connector) *lab-spec models only*
- Adjustable output power (via lockable dial) *lab-spec models only*
- LED display showing LD current, laser cavity temperature *lab-spec models only*
- FDA CDRH Compliant Class IIb / Class IV enclosure
- 48-hour replacement coverage available for an additional fee on specific models

### Package Includes:

- Laser Head
- Driver/Power Supply
- Power Cable
- Keys, Safety Interlock
- Hard-shell Carrying Case

## Specifications:

This spec sheet has been generated specifically for part number R36-O, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to R36-O have been highlighted below in **red + bold**.


Output Power (mW)	<b>&gt;10, &gt;20, &gt;30, &gt;50, &gt;80, &gt;100, &gt;120, &gt;150, &gt;200, &gt;250</b>
Output Power Stability (%RMS/4h)	<b>&lt;1, &lt;3, &lt;5</b>
Central Wavelength (nm)	<b>360</b>
Wavelength Tolerance (+/- nm)	<b>1</b>
Divergence (mrad, full angle)	<b>&lt;1</b>
Beam Dimensions (mm, 1/e <sup>2</sup> )	<b>1.5</b>
Warm-up Time (minutes)	<b>10</b>
M <sup>2</sup>	<b>&lt;2</b>
Polarization Ratio	<b>&gt;50</b>
Beam Pointing Stability (mrad)	<b>&lt;0.05</b>
Operating Temperature Range (°C)	<b>10 to 35</b>
Max. TTL Modulation Freq. (Hz)	<b>500</b>
Modulation Input Signal	<b>0-5 VDC</b>
Max. Power Input Duty Cycle	<b>100%</b>
Standard Warranty (months)	<b>12</b>
MTTF (operational hours)	<b>5000</b>
Weight of Product or Laser Head (kg)	<b>2</b>
Beam Height from Base Plate (mm)	<b>27.4</b>
Dimensions of Product or Laser Head (mm)	<b>197 (l) x 70 (w) x 50 (h)</b>

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.

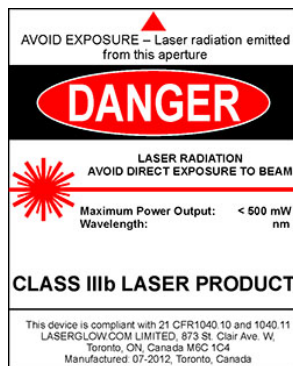
<div>FDA-Compliant LabSpec</div> <div></div>	Power Supply Type:	FO
	Input Power	85v to 264v
	Power Supply Weight (kg)	2.6
	Dimensions (mm)	268 (l) x 145 (w) x 106 (h)

\*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:

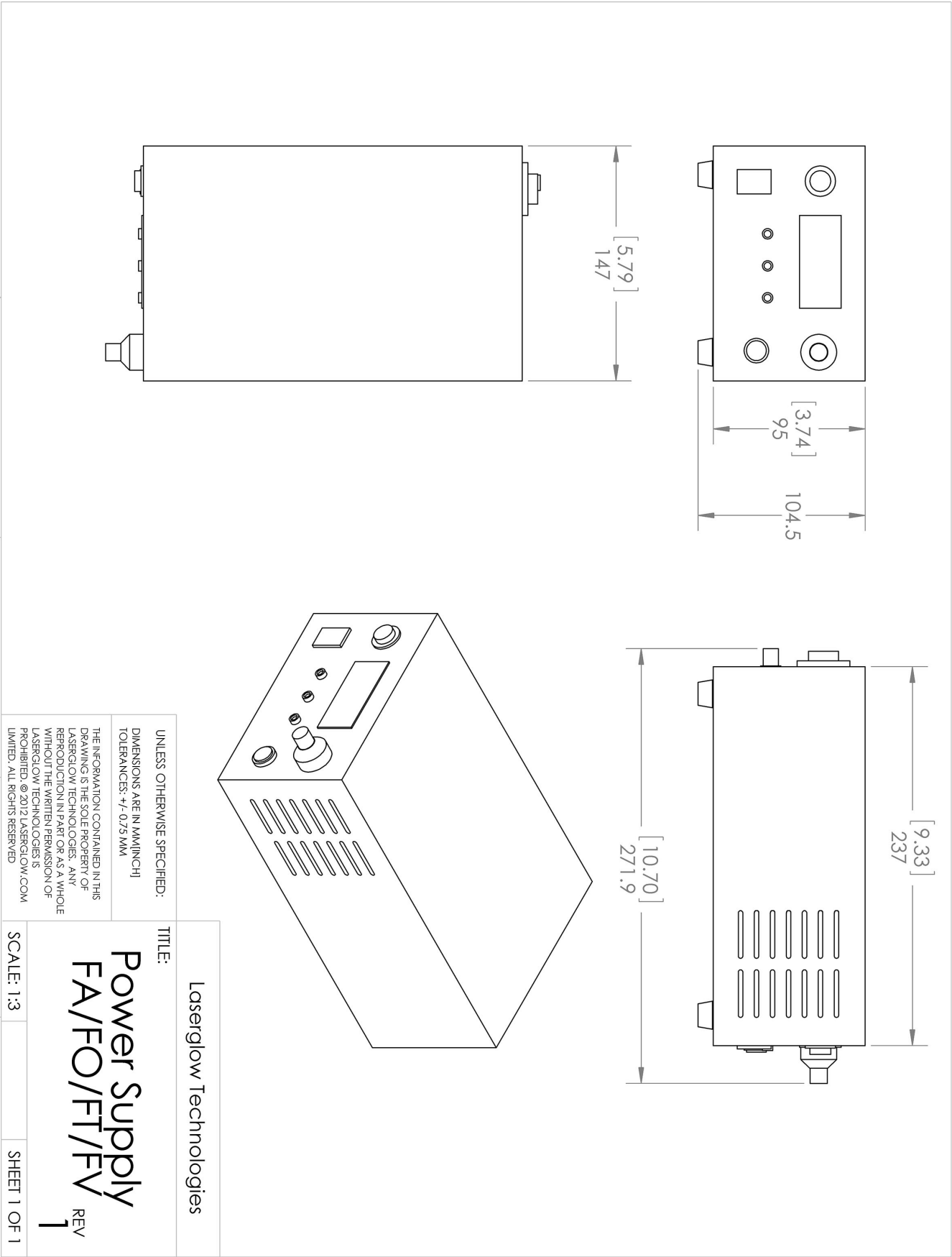
The model you have selected (R36-O) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: O:










Dimensional Drawing - Power Supply Form Factor: FO:



## Accessories:

The most popular accessories for model R36-O are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 ACALBHFXX	Carrying Case-103 Holds Lab/OEM H, F and O size Standard/LabSpec laser Full Details: <a href="http://www.arktislaser.com/ACA">www.arktislaser.com/ACA</a>	Included With Laser
 AGF5327XX	LSG-532-NF-7 Fit-Over Safety Goggles 532nm Output: OD 7+ at 190-532 nm CE Certified Full Details: <a href="http://www.arktislaser.com/AGF">www.arktislaser.com/AGF</a>	
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: <a href="http://www.arktislaser.com/AFS">www.arktislaser.com/AFS</a>	
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: <a href="http://www.arktislaser.com/AFF">www.arktislaser.com/AFF</a>	
 ACSUV1HXA	SMA Fiber Coupler/Collimator for ultraviolet wavelengths (266 to 399 nm) (installed and aligned) 11mm diameter input lens Full Details: <a href="http://www.arktislaser.com/ACS">www.arktislaser.com/ACS</a>	
 ACFUV1HXA	FC/PC Fiber Coupler/Collimator for ultraviolet wavelengths (266 to 399 nm) (installed and aligned) 11mm diameter input lens Full Details: <a href="http://www.arktislaser.com/ACF">www.arktislaser.com/ACF</a>	
 TBK	Complete optics kits with breadboard mounting hardware. External modulators, variable attenuators, free-space fiber launch systems Full Details: <a href="http://www.arktislaser.com/TBK">www.arktislaser.com/TBK</a>	

## 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.