

Laserglow Product Datasheet

LRS-0721 DPSS Laser System



Series Specifications:

Nominal Wavelength	721 nm
Output Type	CW
Laser Source Type	DPSS

Overview:

The LRS-0721 Series of Diode-Pumped Solid-State (DPSS) Lasers are ideal for applications requiring 5 mW to >100 mW of 721 nm laser light with a high level of long-term output power stability and long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for various scientific applications such as measurement, spectral analysis, 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.

Available with both on-board and remote on/off control as well as a wide array of output power and stability levels, 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 IIIb / Class IV enclosure
- 48-hour replacement coverage available for an additional fee on specific models

Package Includes:

- Laser Head
- Driver/Power Supply
- Power Cable
- BNC Connector (LabSpec models only)
- Keys, Safety Interlock
- Hard-shell Carrying Case

Specifications:

This spec sheet has been generated specifically for part number R72-H, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to R72-H have been highlighted below in **red + bold**.

Output Power (mW)	<5, >50, >100, >200, >300, >500	>500
Output Power Stability (%RMS/4h)	<1, <3	<1
Wavelength Tolerance (+/- nm)	1	
Divergence (mrad, full angle)	<1.5	<1.5
Beam Dimensions (mm, 1/e ²)	2	2
Warm-up Time (minutes)	10	
M ²	<1.2	<1.2
Polarization Ratio	>100	
Beam Pointing Stability (mrad)	<0.05	
Operating Temperature Range (°C)	10 to 35	
Max. Analog Modulation Freq. (Hz)	500	500
Max. TTL Modulation Freq. (Hz)	500	500
Modulation Input Signal	0-5 VDC	0-5 VDC
Max. Power Input Duty Cycle	100%	100%
Standard Warranty (months)	12	12
MTTF (operational hours)	10000	10000
Weight of Product or Laser Head (kg)	0.9	2
Beam Height from Base Plate (mm)	29	27.4
Dimensions of Product or Laser Head (mm)	155 (l) x 77 (w) x 60 (h)	197 (l) x 70 (w) x 50 (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.

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

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

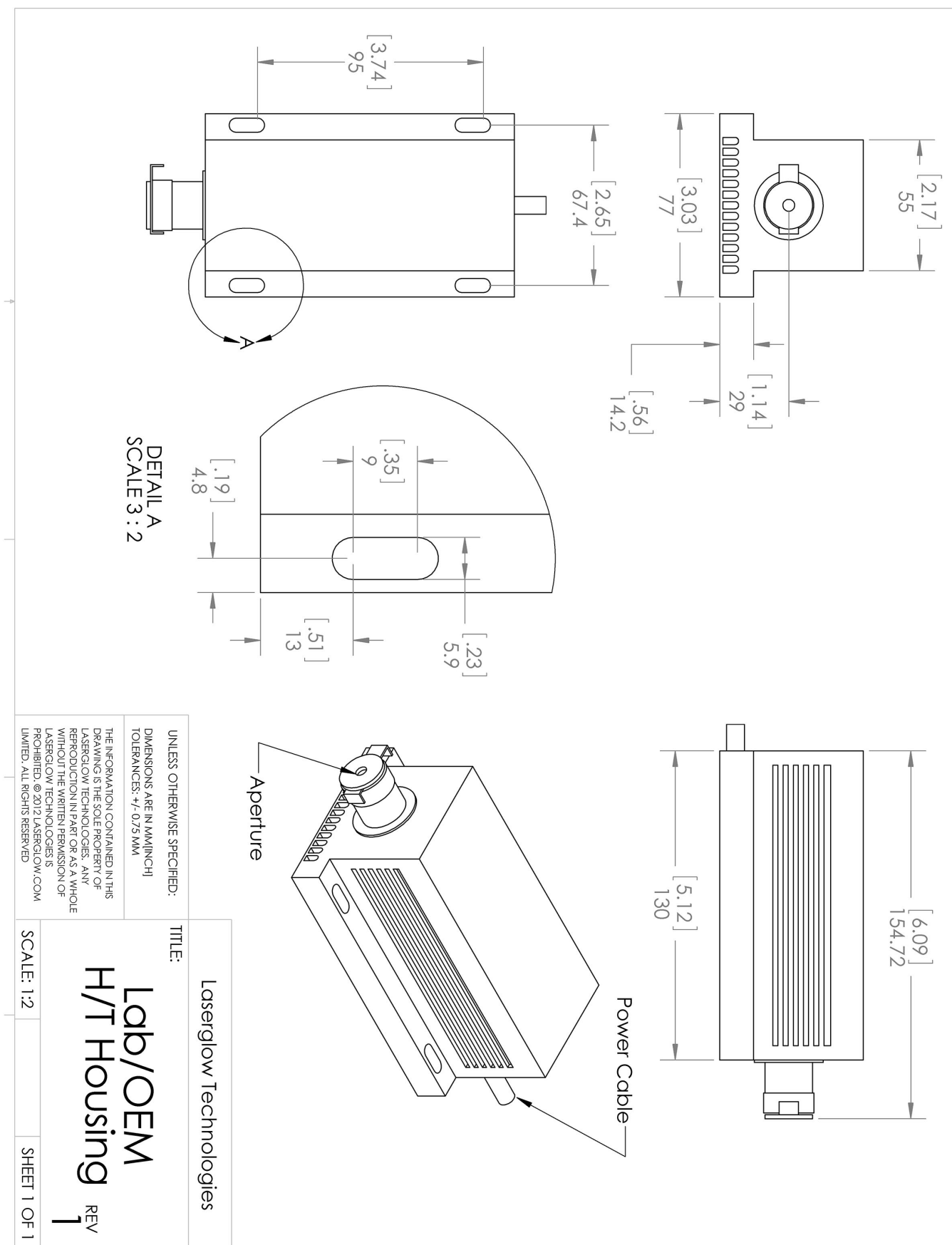
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:

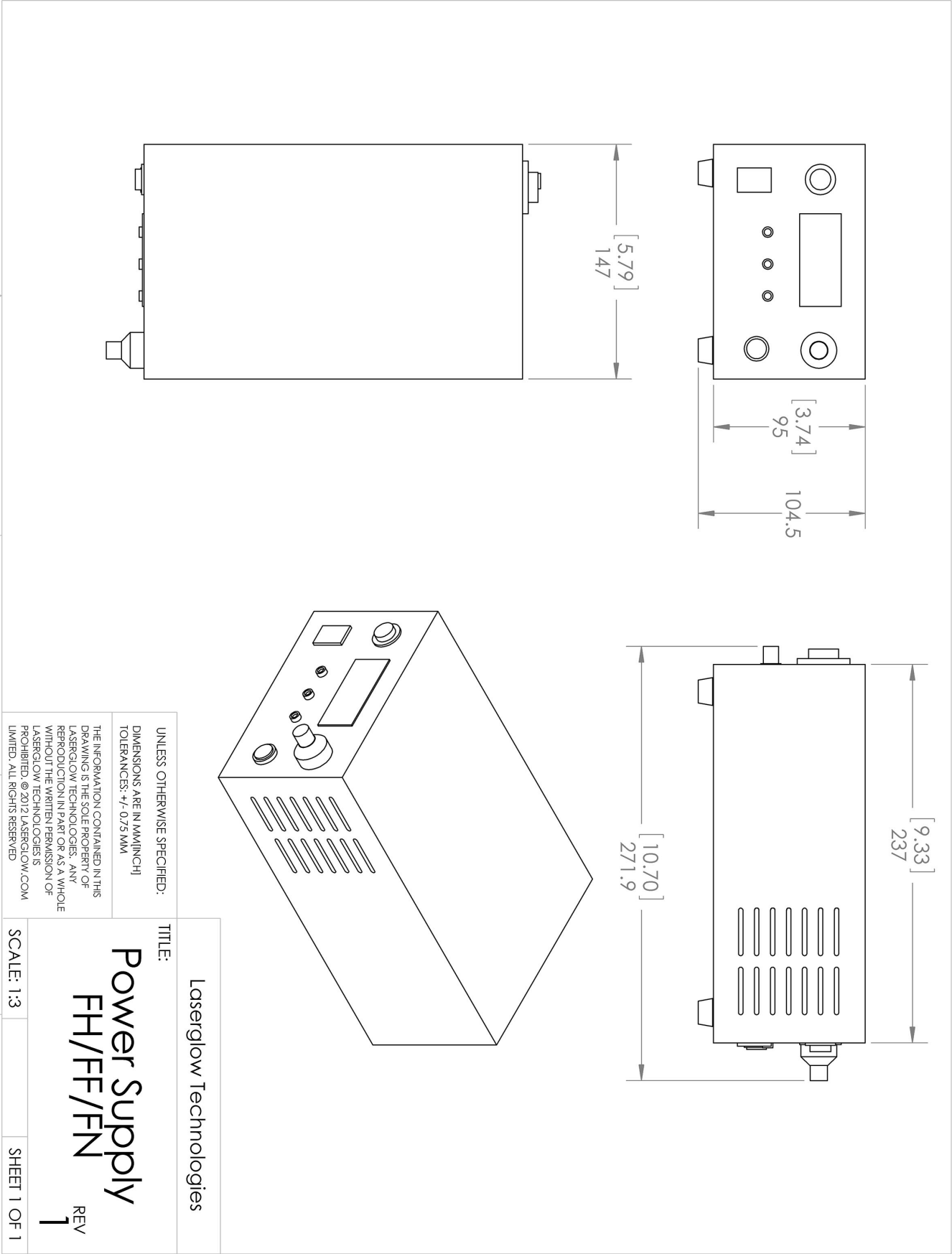
The model you have selected (R72-H) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: H:



Dimensional Drawing - Power Supply Form Factor: FH:



Accessories:

The most popular accessories for model R72-H are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 ACFNIRHXA	FC/PC Fiber Coupler/Collimator for IR wavelengths (700 to 1000 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
 ACSNIRHXA	SMA-905 Fiber Coupler/Collimator for IR wavelengths (700 to 1000nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACS	
 ACALBHFXX	Carrying Case-103 Holds Lab/OEM H, F and O size Standard/LabSpec laser Full Details: www.laserglow.com/ACA	Included With Laser
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: www.laserglow.com/AFS	
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: www.laserglow.com/AFF	
 AGFKTP59X	LSG-KTP-NF-6 Fit-Over Safety Goggles 532/808/1064nm Output: OD 6+ at 190-534/740-1064 nm CE Certified Full Details: www.laserglow.com/AGF	
 TBK	Complete optics kits with breadboard mounting hardware. External modulators, variable attenuators, free-space fiber launch systems Full Details: www.laserglow.com/TBK	

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.