

Arktis Laser Product Datasheet

LRD-2200 Collimated Diode Laser System



Series Specifications: Nominal Wavelength 2200 nm

Output Type	CW
Laser Source Type	Diode

Overview:

The LRD-2200 Series of Collimated Diode (Semiconductor) Lasers are ideal for applications requiring a wavelength of around 2200 nm and a wide range of output power levels from 50 mW to 300 mW 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 communications research, machine vision, scientific applications involving spectral analysis, biology research, 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 onboard 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 Diode Laser technology runs on standard AC power (85 264 V, 47 63 Hz)
- >10,000 hours continuous maintenance-free operating life
- 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 DM0-T, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to DM0-T have been highlighted below in red + bold.

Output Power (mW)	>50, >100, >300
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Output Power Stability (%RMS/4h)	<1, <3, <5, <10
Central Wavelength (nm)	2200
Wavelength Tolerance (+/- nm)	10
Divergence (mrad, full angle)	<5
Beam Dimensions (mm, 1/e ²)	12
Warm-up Time (minutes)	5
M²	<20
Polarization Ratio	>50
Beam Pointing Stability (mrad)	<0.05
Operating Temperature Range (°C)	10 to 35
Max. Analog Modulation Freq. (Hz)	30000
Max. TTL Modulation Freq. (Hz)	10000, 30000
Modulation Input Signal	0-5 VDC
Max. Power Input Duty Cycle	100%
Standard Warranty (months)	12
MTTF (operational hours)	10000
Weight of Product or Laser Head (kg)	0.9
Beam Height from Base Plate (mm)	29
Dimensions of Product or Laser Head (mm)	155 (l) x 77 (w) x 60 (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:	FT
FDA-Compliant LabSpec	Input Power	85v to 264v
	Power Supply Weight (kg)	2.6
	Dimensions (mm)	268 (I) x 145 (w) x 106 (h)

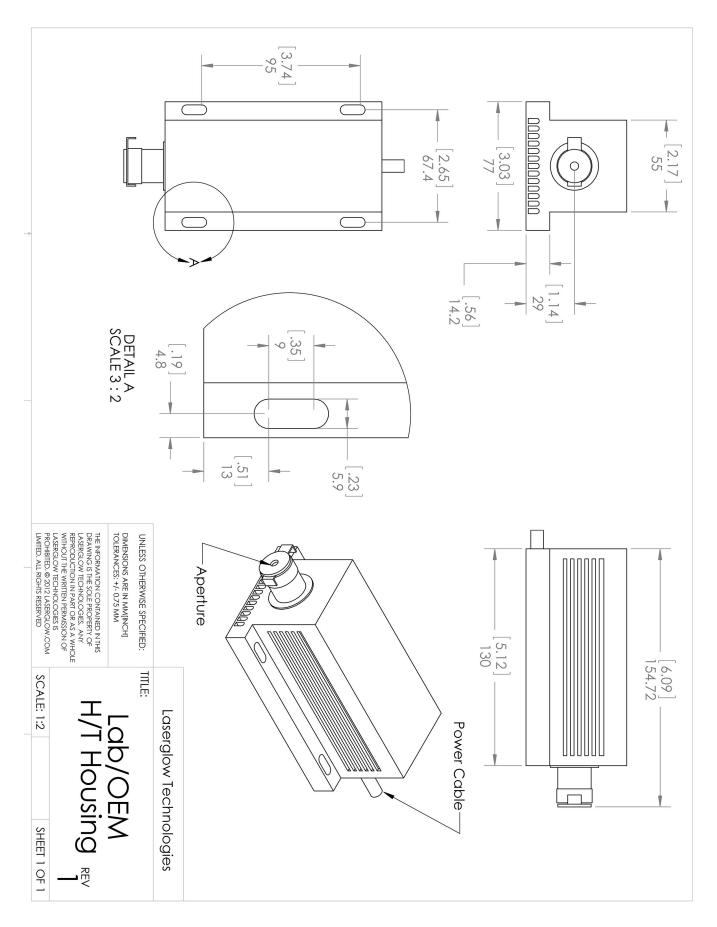
	Power Supply Type:	ST
FDA-Compliant Standard	Input Power	85v to 264v
	Power Supply Weight (kg)	2.3
	Dimensions (mm)	238 (l) x 146 (w) x 102 (h)

*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.

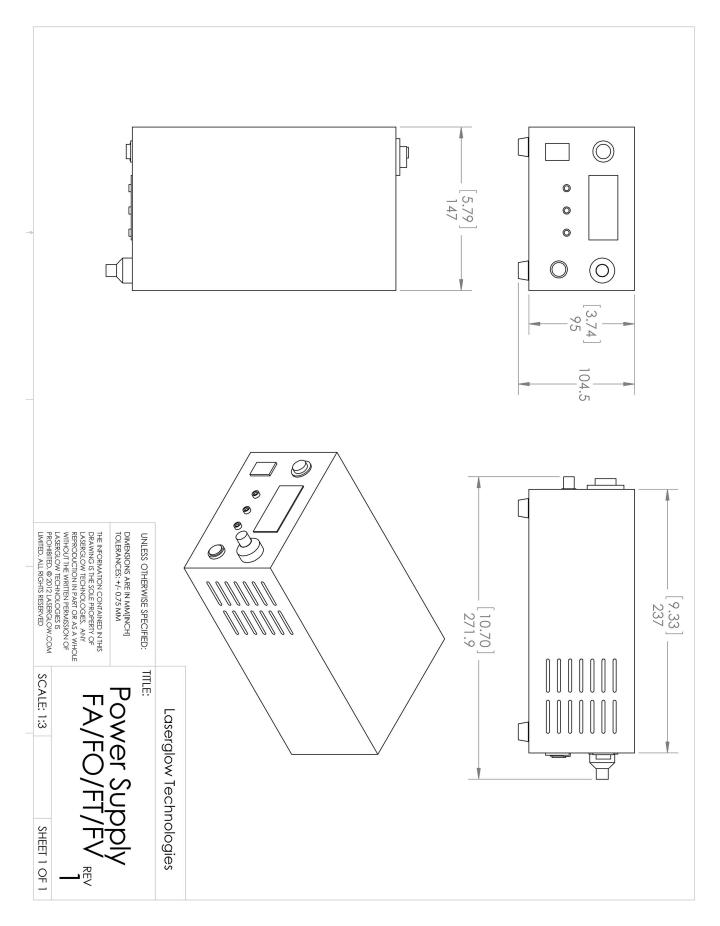
Regulatory Classification:

The model you have selected (DM0-T) requires the following safety label(s):









Accessories:

The most popular accessories for model DM0-T 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: <u>www.arktislaser.com/ACA</u>	Included With Laser
AGFMIR4XX	LSG-MIR-NF-4 Fit-Over Safety Goggles Mid-IR Range Output: OD 4+ at 945-10600 nm CE Certified Full Details: www.arktislaser.com/AGF	

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.