

LPS-1064 AOM Q-Switched DPSS Laser System

Laserglow Part Number:
PA620B3FW

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Series Specifications:

Nominal Wavelength	1064 nm
Output Type	Q-Switched
Laser Source Type	DPSS



Overview:

The LPS-1064 Series of Diode-Pumped Solid-State (DPSS) AOM Q-Switched Lasers are ideal for applications requiring high peak power and a fast pulse frequency at 1064 nm. The embedded AOM gives the user direct control over the output pulses, enabling a specified frequency or even a single pulse to be emitted.

These lasers are commonly used for materials processing, marking, Raman Spectroscopy, biological experimentation and a broad spectrum of other applications.

Key Features:

- AOM q-switch allows for active control of pulses
- 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
- FDA CDRH Compliant 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 PA620B3FW, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to PA620B3FW have been highlighted below in **red + bold**.


Output Power (W)	1, 2	3, 5	8, 10, 12, 15, 18, 20
Single Pulse Energy (µJ)	100, 200	300, 500	300, 350, 400, 500, 600, 700
Optimal Pulse Frequency (Hz)	10000	10000	30000
Output Power Stability (%RMS/4h)	<1, <3 , <5, <10	<3, <5, <10	<3, <5, <10
Central Wavelength (nm)	1063.2		
Wavelength Tolerance (+/- nm)	1	1	1
Divergence (mrad, full angle)	<1.5	<2	<1.5
Beam Dimensions (mm, 1/e ²)	2	2.5	2
Warm-up Time (minutes)	10	10	10
Avg. Pulse Duration (ns)	8	10	25
Approx. Timing Jitter (+/- ns)	10	10	10
Approx. Trigger-Pulse Latency (µs)	200	200	200
Approximate Peak Power (W)	10000, 20000	30000, 40000	10000, 13000, 15000, 20000, 25000, 30000
Polarization Ratio			>100
Operating Temperature Range (°C)	15 to 35	15 to 35	15 to 35
Max. TTL Modulation Freq. (Hz)	200,000	200,000	200,000
Modulation Input Signal	0-5 VDC	0-5 VDC	0-5 VDC
Max. Power Input Duty Cycle	100%	100%	100%
Standard Warranty (months)	12	12	12
MTTF (operational hours)	10000	10000	10000
Weight of Product or Laser Head (kg)	2.6	6.1	10.2
Beam Height from Base Plate (mm)	68.2	93.5	113
Dimensions of Product or Laser Head (mm)	240 (l) x 99 (w) x 94 (h)	346 (l) x 140 (w) x 125 (h)	420 (l) x 142 (w) x 144 (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:	AN	AZ	AW
 FDA-Compliant AOM Driver	Input Power	85v to 264v	85v to 264v	85v to 264v
	Power Supply Weight (kg)	6.2	12.4	6.88
	Dimensions (mm)	334 (l) x 300 (w) x 123 (h)	376 (l) x 485 (w) x 133 (h)	334 (l) x 300 (w) x 123 (h)

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

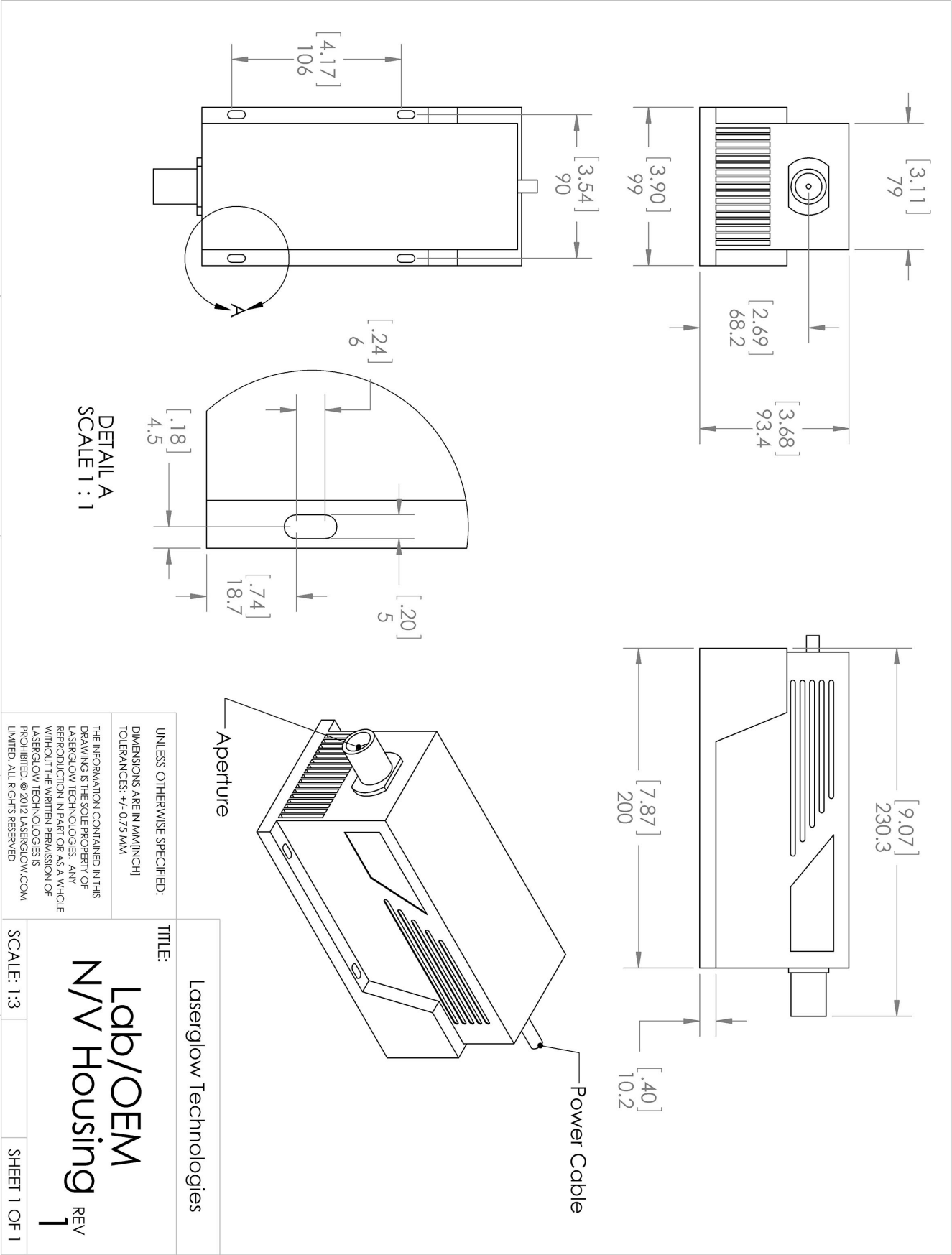
*Dimensions for fiber-integrated (I_) include laser head packaged inside.

Regulatory Classification:

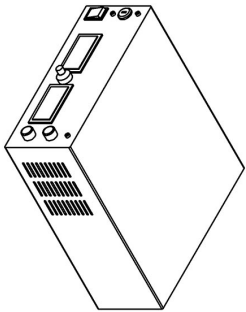
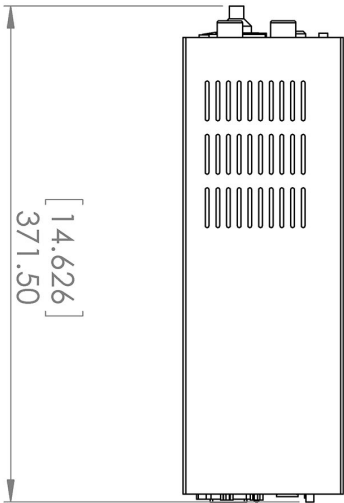
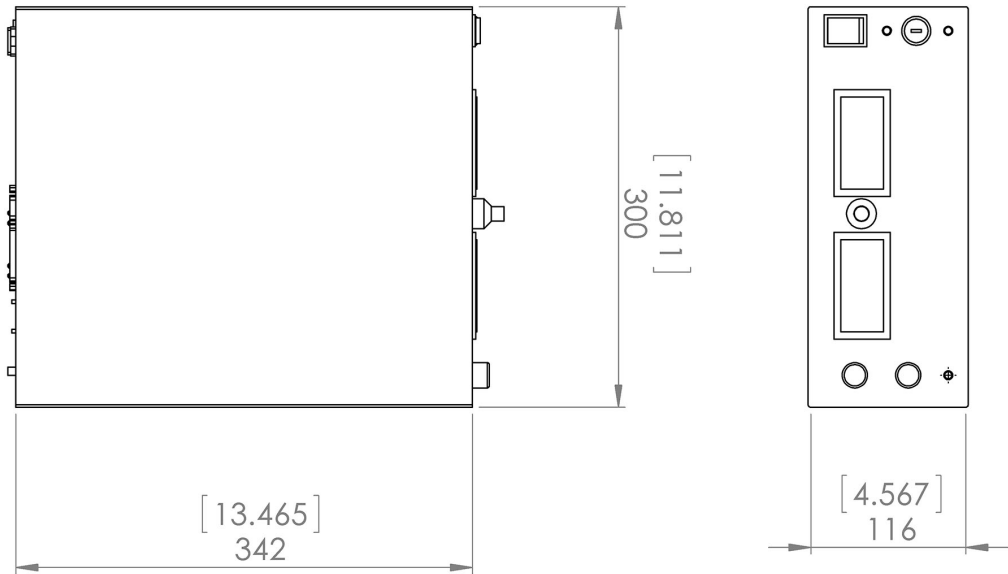
The model you have selected (PA620B3FW) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: N:









Dimensional Drawing - Power Supply Form Factor: AN:



Laserglow Technologies		
TITLE:		
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM(INCH) TOLERANCES: +/- 0.75 MM		
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AN Supply		REV 1
SCALE: 1:5		SHEET 1 OF 1

Accessories:

The most popular accessories for model PA620B3FW are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 ACFMIRHXA	FC/PC Fiber Coupler/Collimator for IR wavelengths (1000 to 1300 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
 ACSMIRHXA	SMA-905 Fiber Coupler/Collimator for IR wavelengths (1000 to 1300 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACS	
 ACALBNWXX	Carrying Case-104 Holds Lab/OEM N or W size Standard/Labspec laser Full Details: www.laserglow.com/ACA	Included With Laser
 AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: www.laserglow.com/AFF	
 AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: www.laserglow.com/AFS	
 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	

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.