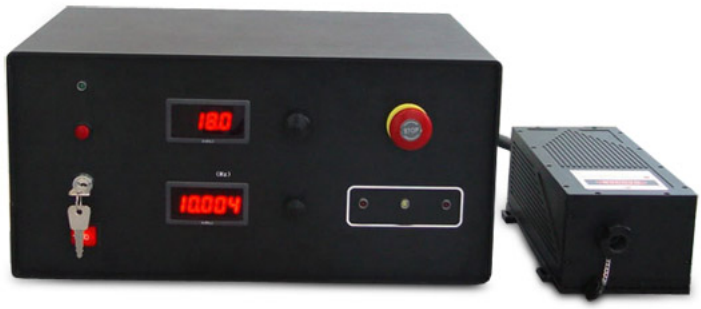
Arktis Laser Product Datasheet

LWS-1064 Water-Cooled Q-Switched DPSS Laser System



Series Specifications:

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

Overview:

The LWS-1064 Series of Diode-Pumped Solid-State (DPSS) AOM Q-Switched Lasers are ideal for applications requiring the highest available output in 1064 nm. At over 100 W average output this series maintains a high level of long-term output power stability and a long operating lifetime at an aggressively competitive cost.

These lasers are commonly used for fluorescence excitation, PIV, Raman Spectroscopy, laser display and a broad spectrum of other applications including materials processing. 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:

- Closed Loop Water Cooling - no need for external plumbing connection
- Lightweight, compact design
- Pulse energy and frequency are user-adjustable
- 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 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

Specifications:

This spec sheet has been generated specifically for part number WA6-B, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to WA6-B have been highlighted below in **red + bold**.

Output Power (W)	**20**, **30**, **50**, **75**, **100**
Single Pulse Energy (µJ)	**2000**, **3000**, **5000**, **7500**, **10000**
Optimal Pulse Frequency (Hz)	**10000**
Output Power Stability (%RMS/4h)	**<1**, **<3**, **<5**
Central Wavelength (nm)	**1063.2**
Wavelength Tolerance (+/- nm)	**1**
Divergence (mrad, full angle)	**<3.5**
Beam Dimensions (mm, $1/e^2$)	**7**
Warm-up Time (minutes)	**10**
Avg. Pulse Duration (ns)	**85**
Beam Pointing Stability (mrad)	**<0.05**
Operating Temperature Range (°C)	**15 to 35**
Max. TTL Modulation Freq. (Hz)	**100,000**
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)	**15**
Beam Height from Base Plate (mm)	**65**
Dimensions of Product or Laser Head (mm)	**426 (l) x 150 (w) x 130 (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.

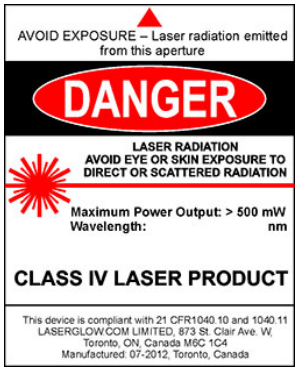
	Power Supply Type:	**FB**
FDA-Compliant LabSpec 	Input Power	**85v to 264v**
	Power Supply Weight (kg)	**18.5**
	Dimensions (mm)	**340 (l) x 463 (w) x 221 (h)**

*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 (WA6-B) requires the following safety label(s):



Accessories:

The most popular accessories for model WA6-B 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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