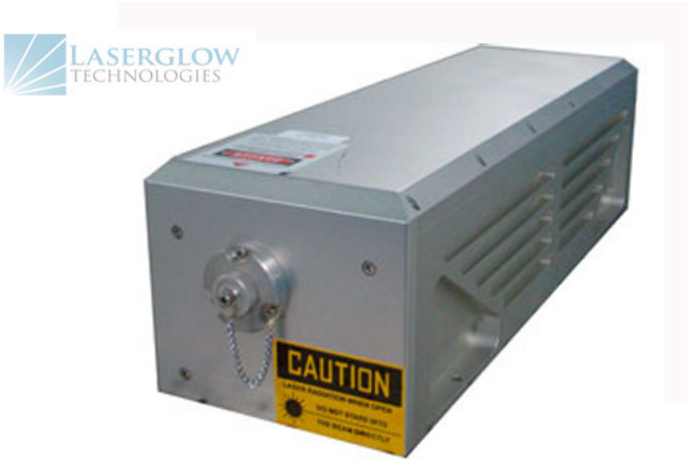
Laserglow Product Datasheet

LWL-1064 Lamp-Pumped Q-Switched DPSS Laser System



Series Specifications:

Nominal Wavelength	1064 nm
Output Type	Q-Switched
Laser Source Type	Lamp-Pumped Solid St

Overview:

The LWL-1064 Series of Lamp-Pumped Solid-State Q-Switched Lasers offer extremely high pulse energies in the range of 0.1-1.0 J. The laser users an embedded EOM to control the pulse frequency at a fixed rate of 10 Hz. The pulses themselves are extremely short, only 9 ns in duration, so the peak power during each pulse is in the range of 10-100 megawatts (MW).

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

Key Features:

- EOM Q-switch generates short, powerful pulses
- Closed-loop water cooling system
- Runs on standard AC power (85 - 264 V, 47 - 63 Hz)
- FDA/CDRH Compliant Class IV enclosure

Package Includes:

- Laser Head
- Driver/Power Supply
- Water chiller

Specifications:

This spec sheet has been generated specifically for part number UA6-LS, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to UA6-LS have been highlighted below in **red + bold**.

Laser Form Factor	**LS**	L
Output Power (W)	**1**, **3**	5, 8, 10
Single Pulse Energy (µJ)	**100,000**, **300,000**	1,000,000, 500,000, 800,000
Optimal Pulse Frequency (Hz)	**10**	10
Output Power Stability (%RMS/4h)	**<3**	<3
FDA Safety Class	**IV**	IV
Wavelength Tolerance (+/- nm)	**1**	1
Divergence (mrad, full angle)	**<3**	<3
Beam Dimensions (mm, 1/e²)	**8**	8
Longitudinal Modes	**Multiple**	Multiple
Warm-up Time (minutes)	**15**	15
Avg. Pulse Duration (ns)	**9**	9
Approximate Peak Power (W)	**10,000,000**, **30,000,000**	100,000,000, 50,000,000, 80,000,000
Beam Pointing Stability (mrad)	**<0.05**	<0.05
Operating Temperature Range (°C)	**15 to 35**	15 to 35
Storage Temperature Range (°C)	**-10 to 50**	-10 to
Max. TTL Modulation Freq. (Hz)	**10**	10
Modulation Input Signal	**0-5 VDC**	0-5 VDC
Max. Power Input Duty Cycle	**100%**	100%
Cooling Method	**TEC/Forced Air**	TEC/Forced Air
Standard Warranty (months)	**12**	12
MTTF (operational hours)	**10000**	10000
Beam Height from Base Plate (mm)	**75**	80
Dimensions of Product or Laser Head (mm)	**450 (l) x 150 (w) x 130 (h)**	600 (l) x 245 (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.

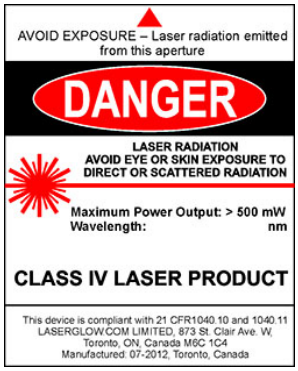
FDA-Compliant Driver 	Power Supply Type:	**FL**
	Input Power	**85v to 264v**
	Power Supply Weight (kg)	**15**
	Dimensions (mm)	**480 (l) x 465 (w) x 135 (h)**

*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 (UA6-LS) requires the following safety label(s):



Accessories:

The most popular accessories for model UA6-LS 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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