

# **Laserglow Product Datasheet**

# LQS-0532 Passively Q-Switched Laser System

# Laserglow Part Number: Q530105SX

#### **Similar Products:**

For information about the other lasers in this product family visit: http://www.laserglow.com/Q53

Order Online Now or Request Quote: http://www.laserglow.com/Q530105SX

#### **Series Specifications:**

Nominal Wavelength	532 nm
Output Type	Q-Switched
Laser Source Type	DPSS



#### **Overview:**

The LQS-0532 Series of Diode-Pumped Solid-State (DPSS) Q-Switched Lasers are ideal for applications requiring a very high peak power or short pulse duration at 532 nm.

These lasers are commonly used for fluorescence excitation, Raman spectroscopy, material processing, and a broad range of other applications. The driver is available as a plug-and-play benchtop system or an O.E.M. component designed for system integration.

#### **Key Features:**

- Pulse energy of 1 uJ 30 uJ
- Pulse repetition rate of 1 Hz 4 kHz
- Pulse duration of 10 ns
- Air cooled
- Runs on standard AC power (85 264 V, 47 63 Hz)
- 10,000 hour maintenance-free operating life (Expected)
- FDA/CDRH compliant Class IV enclosure

#### 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 Q530105SX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to Q530105SX have been highlighted below in red + bold.

>12	>20, <b>&gt;40</b> , >80, >120	
3	5, <b>10</b> , 20, 30	
4000	4000	
<1, <3, <5	<1, <3, <mark>&lt;5</mark> , <10	
531.65	531.65	
1	1	
<1.5	<1.5	
1.2	1	
10	10	
10	10	
100	300, <b>500</b> , 800, 1000	
<20	<20	
<0.2	<0.12	
<1.2	<1.5	
	>100	
<0.05	<0.05	
10 to 35	10 to 35	
20000	20000	
1	1	
0-5 VDC	0-5 VDC	
28	90	
100%	100%	
12	12	
10000	10000	
0.6	0.9	
	3 4000 <1, <3, <5 531.65 1 (1.2 (1.2 (1.2 (1.2 (1.2 (1.2 (1.2 (1	

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.

#### **Specifications Page 2:**

This spec sheet has been generated specifically for part number Q530105SX, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to Q530105SX have been highlighted below in red + bold.

Laser Form Factor		
Beam Height from Base Plate (mm)	24.8	29
Dimensions of Product or Laser Head (mm)	140.8 (l) x 73 (w) x 46.2 (h)	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.

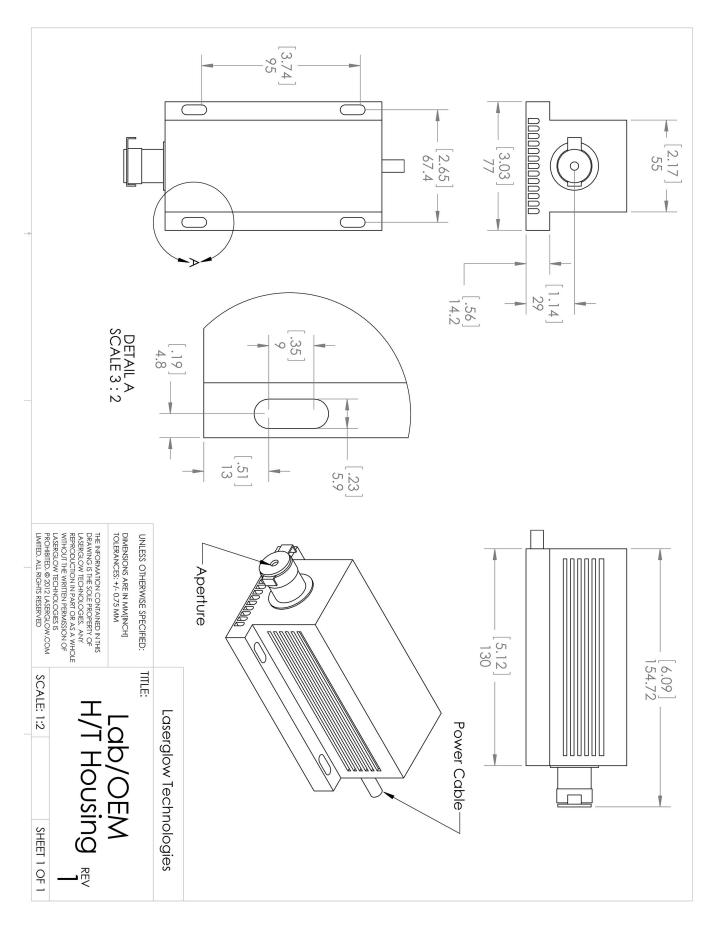
	Power Supply Type:	SM	SH
FDA-Compliant Standard	Input Power	85v to 264v	85v to 264v
	Power Supply Weight (kg)	1.2	2.3
	Dimensions (mm)	133 (l) x 130 (w) x 65 (h)	238 (l) x 146 (w) x 102 (h)

\*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.

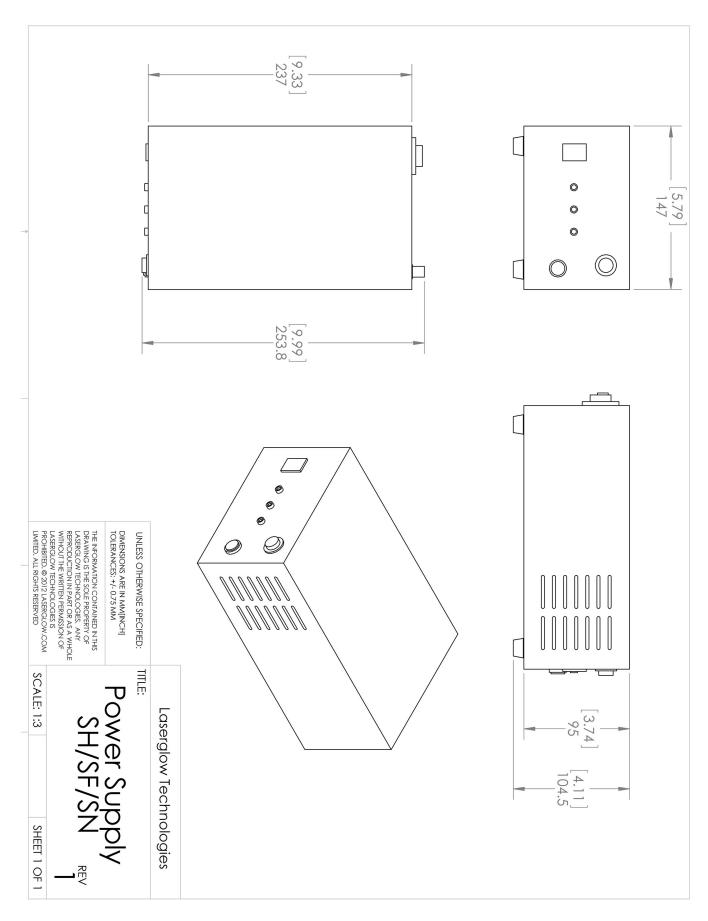
### **Regulatory Classification:**

The model you have selected (Q530105SX) requires the following safety label(s):









#### Accessories:

The most popular accessories for model Q530105SX are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
AFF2002XX	Armored Fiber With FC/PC Connectors 200um Core Multimode 2m length Full Details: <u>www.laserglow.com/AFF</u>	
AFS2002XX	Armored Fiber With SMA 905 Connectors 200um Core Multimode 2 m length Full Details: <u>www.laserglow.com/AFS</u>	
AGF5327XX	LSG-532-NF-7 Fit-Over Safety Goggles 532nm Output: OD 7+ at 190-532 nm CE Certified Full Details: www.laserglow.com/AGF	
ACFVISHXA	FC/PC Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (installed and aligned) 11mm diameter input lens Full Details: www.laserglow.com/ACF	
ACSVISHXA	SMA-905 Fiber Coupler/Collimator for visible spectrum wavelengths (400 to 700 nm) (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: <u>www.laserglow.com/ACA</u>	Included With Laser

# FOR MORE INFORMATION PLEASE CONTACT:

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 $\ensuremath{\mathsf{E}\&\mathsf{OE}}$  : Data included in this sheet may be subject to change without notice.

Please confirm critical specifications with our staff prior to ordering.