



QSLF1030 Series 1030nm Passively Q-Switched Laser System up to 150µJ

Overview

The QSLF1030 series diode pumped solid state (DPSS) Q-switched UV laser is ideal for applications that require a wavelength of 1030nm and single pulse energy levels up to 150uJ. The laser features a compact design, long lifetime, easy operation, and FDA-compliant system with driver. The laser is widely used in scientific experiment, laser fluorescence, and many other applications.



Specifications

Model Number		QSLF1030-XYPR	
Wavelength (nm)		1030±2	
Operating mode		Frequency conversion of Q-switched pulsed laser	
Average output power (mW)		~100 (X=100), ~200 (X=200), ~300 (X=300)	
		Average power (mW) = Single pulse energy (µJ) * Rep. rate (kHz)	
Single pulse energy (µJ)		Up to ~150	
Average power stability (rms, over 4 hours)		<5% (P=A)	
Pulse duration (ns)		~10	
Peak power (W)		Peak Power (W) = Single Pulse Energy (µJ) / Pulse Duration (µs)	
Repetition rate (kHz)	QCW	QCW state with one rep. rate between 1kHz-2kHz. (R=U)	
Transverse mode		Near TEM ₀₀	
Beam divergence, full angle (mrad)		<2.0	
Beam diameter at aperture (mm)		~3.0	
M ² factor		<2	
Warm-up time (minutes)		<10	
Beam height from base plate (mm)		45	
Operating temperature (°C)		10-35	
Dimensions of laser head (mm)		211(L)×88(W) ×74(H) mm ³	
Weight of laser head (kg)		1.6 kg	
Power supply			
High Power Elite Power Supply (Y=H)	Input voltage	90-264VAC	
	Dimensions	275(L) ×145(W) ×104(H) mm ³	
	Weight	2.4 kg	
	Notes	Fixed output power	
High Power Laboratory Power Supply (Y=M)	Input voltage	90-264VAC	
	Dimensions	277(L) ×145(W) ×106(H) mm ³	
	Weight	2.6 kg	
	Notes	Adjustable output power	
Expected lifetime (hours)		5,000	
Warranty period		10 months	
FDA Compliance		FDA CDRH Title 21 CFR 1040.10/11 Class IIIb	

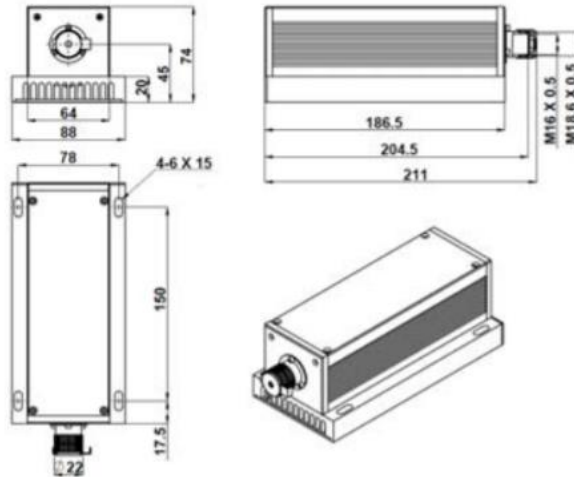
Remarks:

- Specifications of the Q-switched pulsed laser is based on the laser pulsed at the specified repetition rate. If the laser is run at a different repetition rate, the output characteristics may change.



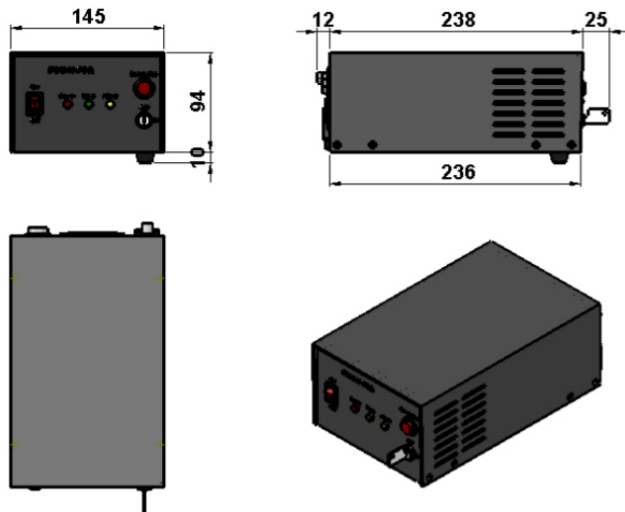
Outline Dimensions (unit: mm)

Laser Head



Power Supply Options

High Power Elite Power Supply (Y=H)



High Power Laboratory Power Supply (Y=M)



Note: The above specifications are subject to change without notice.