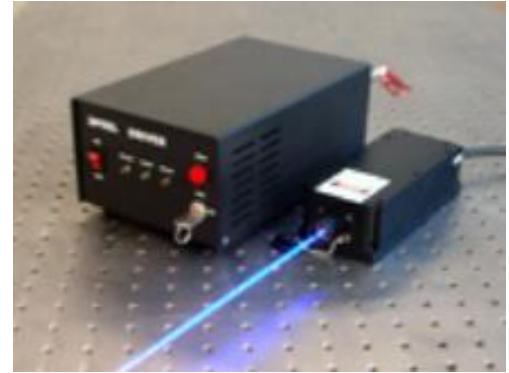


DPLFN473 Series 473nm Fan-less Low Noise DPSS Laser System up to 400mW

Overview

The DPLFN473 series diode pumped solid state (DPSS) laser is ideal for applications that require a wavelength of 473nm and output power levels up to 400mW. The laser features a compact design, low noise, long lifetime, easy operation, and FDA-compliant system with driver. The laser is widely used in fluorescence sensors, Raman spectrum, laser printing, holography, chip inspection, physics experiment, and many other applications.

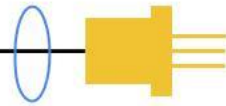


Specifications

Model Number	DPLFN473-XYZA	
Wavelength (nm)	473±1	
Output power (mW)	>50 (X=50), >100 (X=100)	>200 (X=200), >300 (X=300), >400 (X=400)
Transverse mode	TEM ₀₀	Near TEM ₀₀
Operating mode	CW	
Power stability (rms, over 4 hours)	<3% (Z=E)	<5% (Z=A), <3% (Z=E), <2% (Z=2)
Noise of amplitude (rms, 20Hz-20MHz)	<1% (A=1)	
Spectral linewidth (nm)	<0.2	
M ² factor	<1.2	<1.5
Beam diameter at aperture (1/e ² , mm)	~2.0	~3.0
Beam divergence, full angle (mrad)	<1.5	
Polarization ratio	>100:1 Vertical ±5 degree	
Warm-up time (minutes)	<10	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	27.4	
Operating temperature (°C)	10-35	
Dimensions of laser head (mm)	197(L)×70(W) ×50(H) mm ³	
Weight of laser head (kg)	2.0 kg	
Power supply options		
High Power Elite Power Supply (Y=H)	Input voltage	90-264VAC
	Dimensions	236(L) ×145(W) ×104(H) mm ³
	Weight	2.3 kg
	Notes	Fixed output power
Expected lifetime (hours)	10,000	
Warranty period	10 months	
FDA Compliance	FDA CDRH Title 21 CFR 1040.10/11 Class IIIb	

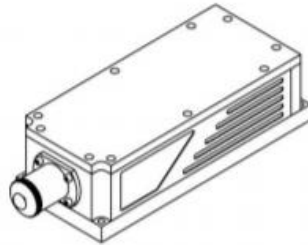
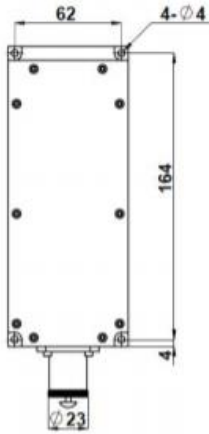
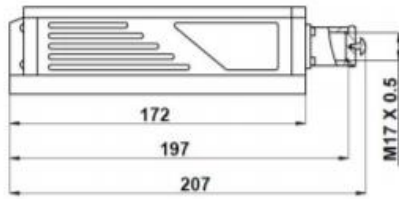
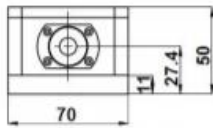
Remarks:

- The laser head needs to be used on a heat sink with good heat dissipation.
- Specifications of the CW laser is based on the laser performance at full power output after the specified warmup period. The stability of output power may change when output power is adjusted at a different power level.

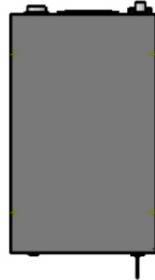
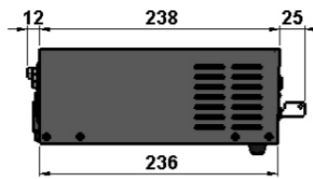
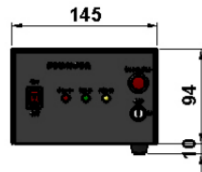


Outline Dimensions (unit: mm)

Laser Head



Power Supply



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