UV-FN-X series



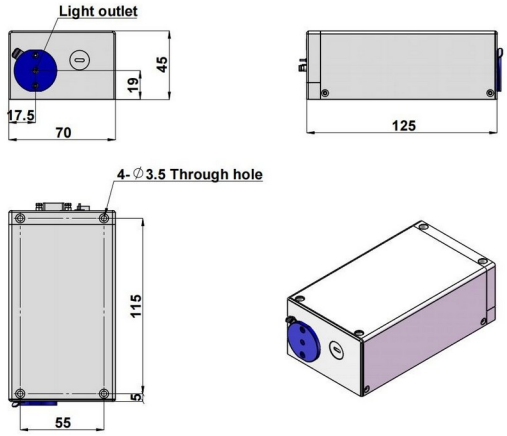
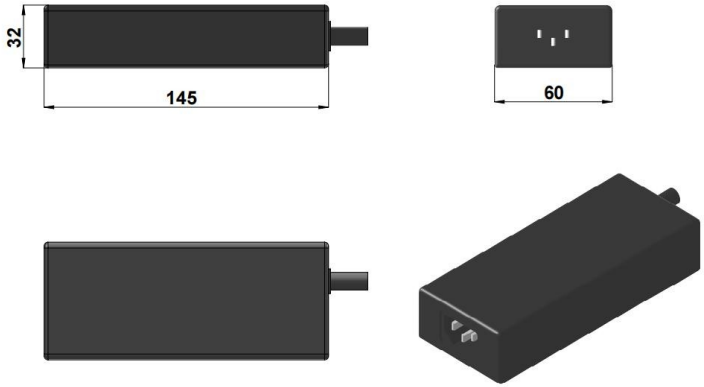


LD PUMPED ALL-SOLID-STATE UV LASER

An all-solid-state single longitudinal mode UV laser is characterized by high output power stability, a good beam profile, ultra - compactness, a long lifetime, and easy operation. The laser is widely used in high - precision measurement, biomedical detection, semiconductor microfabrication, flow cytometry, Raman spectroscopy, photoluminescence, confocal and super - resolution fluorescence microscopy, among other fields.

SPECIFICATIONS

Wavelength (nm)	320±1	349±1	360±1
Operating mode	CW		
Output power (mW)[1]	1-50	1-50	1-50
Power stability (rms, 4 hours±3℃)	<1%, <0.5%		
Spectral line width (nm)	<1MHz		
Transverse mode	TEM_{00}		
M^2	<1.2		
Beam diameter at the aperture ($1/e^2$, mm)	~0.7		
Beam divergence, full angle (mrad)	<1.0		
Noise of amplitude (rms, 20Hz-20MHz)	<0.25%		
Peak-to-Peak Noise (20 Hz to 20 kHz)	<1%		
Polarization ratio	>100:1, Vertical (Horizontal optional)		
Warm-up time (minutes)	<10		
Pointing Stability(μrad) (over 2 hours after warm-up and ±3°C)	<30		
Pointing Stability Over Temperature(μrad/°C)	<8		
Beam height from base plate (mm)	19		
Operating Temperature (°C)	10-35		
Operating voltage (VDC)	12V		
Expected lifetime (hours)	>10000		

LASER HEAD[2]	POWER SUPPLY (100-240VAC) optional
	
125(L)×70(W)×45(H) mm³, 1.0kg	**145(L)×60(W)×32(H) mm³, 0.5kg**

1 Any power level can be selected in this range.

2 The laser head needs to be used on a heat sink with good heat dissipation.