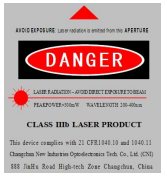
UV-FN-xxx-SLM series

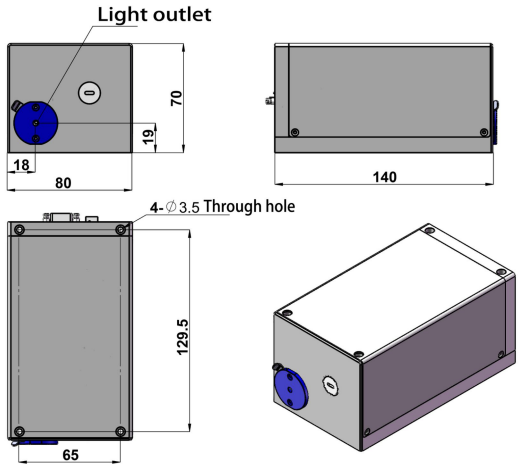
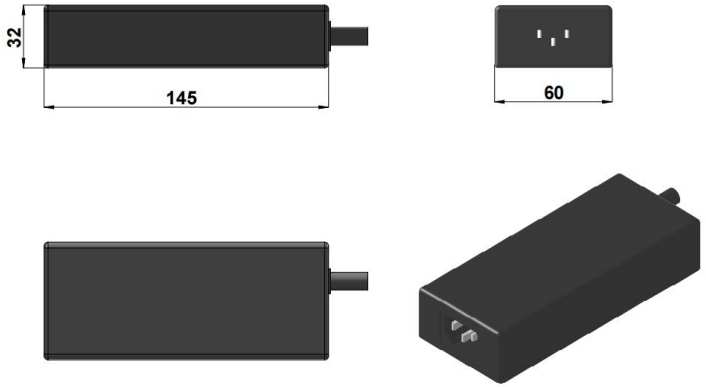
LD PUMPED ALL-SOLID-STATE UV LASER



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
Operating mode	CW	
Output power (mW)[1]	50-100	50-100
Power stability (rms, 4 hours±3°C)	<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
	
140(L)×80(W)×70(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.