



MLL-U-xxx-SU series (1301-1500nm)



LOW NOISE INFRARED LASER

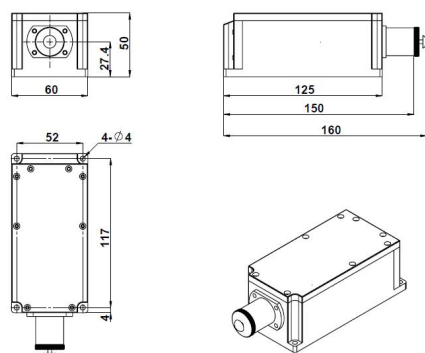
All-solid-state, low-noise infrared laser features an ultra-compact, long lifetime, easy operation, It is used in scientific experiments, optical sensors, measurement, instrumentation, communication, spectrum analysis, etc.



SPECIFICATIONS

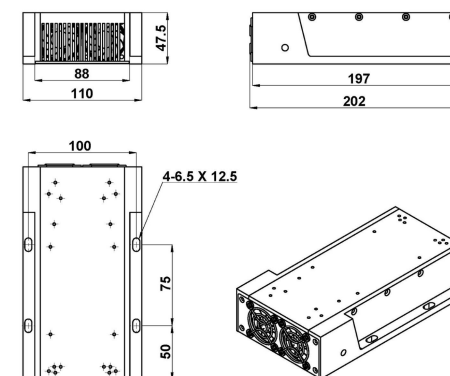
Wavelength (nm) ¹	1313±1		1319±1	1342±1		1444±2
Operating mode	CW					
Output power (mW) ²	1-700	700-1000	1-200	1-800	800-2000	1-400
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%	<3%, <2%
Transverse mode	TEM ₀₀					
Spectral line width (nm)	<1.0, <0.1, (<0.006 optional@1-500)		<0.006	<1.0, <0.1, (<0.006 optional@1-800)		<1.0, <0.1
Noise of amplitude (rms, 20Hz-20MHz)	<1%					
M ²	<1.2		<1.5	<1.2		<1.5
Beam diameter at the aperture (1/e ² , mm)	~1.5					
Beam divergence, full angle (mrad)	<1.5					
Polarization ratio	>100:1, Horizontal (Vertical optional)					
Warm-up time (minutes)	<5					
Pointing stability (urad) (over 2 hours after warm-up and ±3°C)	<50					
Pointing stability over temperature (urad/°C)	<8					
Beam height from base plate (mm)	27.4					
Operating temperature (°C)	10-35					
Power supply (100-240VAC)	PSU-H-FDA					
Operating voltage (VDC)	PSU-SR-OEM (12V/25A)					
Expected lifetime (hours)	>10000					

LASER HEAD³



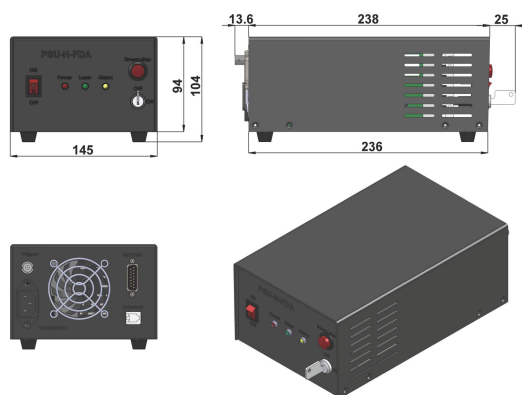
160(L)×60(W)×50(H) mm³, 0.9kg

HEATSINK (optional TC-02-FS)



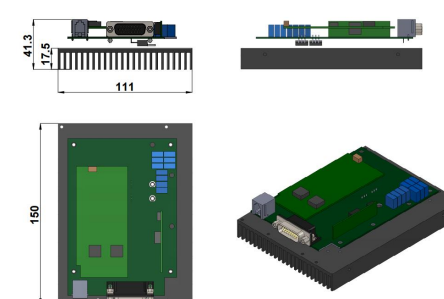
202(L)×110(W)×47.5(H) mm³, 1.25 kg

POWER SUPPLY (PSU-H-FDA)⁴



276.6(L)×145(W)×103.6(H) mm³, 2.3 kg

DRIVER (PSU-SR-OEM)⁴



150(L)×111(W)×41.3(H) mm³, 0.8kg

- 1 Other wavelengths can be customized, please consult.
- 2 Any power level can be selected in this range.
- 3 The laser head needs to be used on a heat sink with good heat dissipation
- 4 Fixed output power.