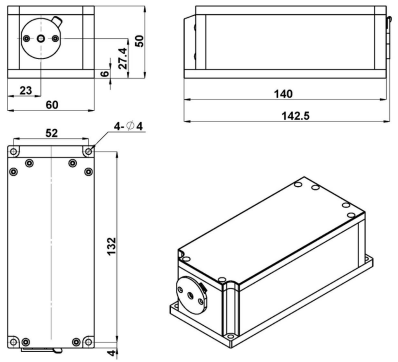
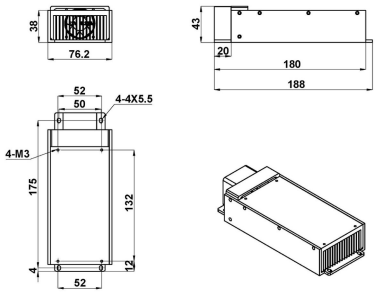
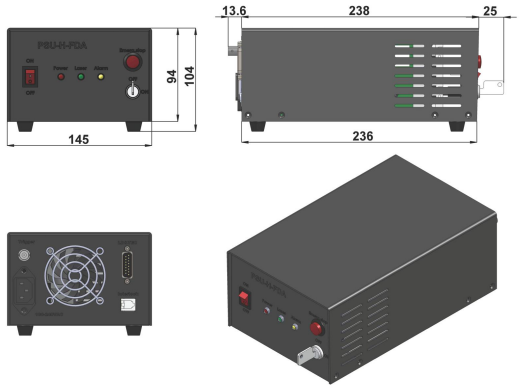
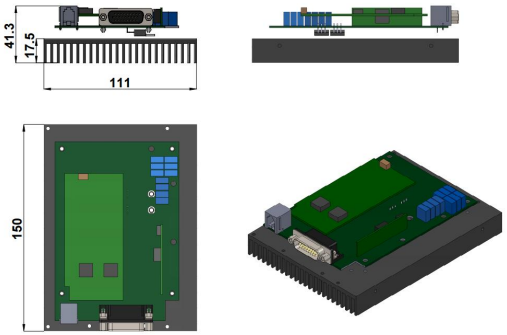
MLL-U series (571-700nm)

ULTRA- LOW NOISE DPSS LASER

The ultra-low-noise laser features an ultra-compact design, a long lifetime, and high stability and reliability. It is widely used in scientific experiments, medical measurements, instrumentation, spectral analysis, and more.

SPECIFICATIONS

Wavelength (nm)	577±2	588±2	589±1	671±1
Operating mode	CW			
Output power (mW)[1]	1-200			1-500
Power stability (rms, 4 hours ±3°C)	<3% , <2%, <1%			
Spectral line width (nm)	<0.1, <0.003			
Transverse mode	TEM_{00}			
Noise of amplitude (rms, 20Hz-20MHz)	<1%	<1%, <0.5%		
M^2	<1.2			
Beam diameter at the aperture ($1/e^2$, mm)	<1.0			
Beam divergence (mrad)	<1.5			
Polarization ratio	>100:1, Horizontal (Vertical optional)			
Warm-up time (minutes)	<5			
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)	<50			
Pointing stability over temperature (μrad/°C)	<8			
Beam height from base plate (mm)	27.4			
Operating temperature (°C)	10-35			
Power supply (100-240VAC)	PSU-H-FDA			
Power supply (12VDC)	PSU-SR-OEM (12V/25A)			
Expected lifetime (hours)	>10000			

LASER HEAD[2]	HEATSINK (optional TC-04-FS)
	
142.5(L)×60(W)×50(H)mm³, 1.0kg	**188(L)×76.2(W)×43(H) mm³, 0.65kg**
POWER SUPPLY (PSU-H-FDA)[3]	**DRIVER (PSU-SR-OEM)[3]**
	
276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg	**150(L) ×111(W) ×41.3(H) mm³, 0.8kg**

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.

3 Fixed output power.