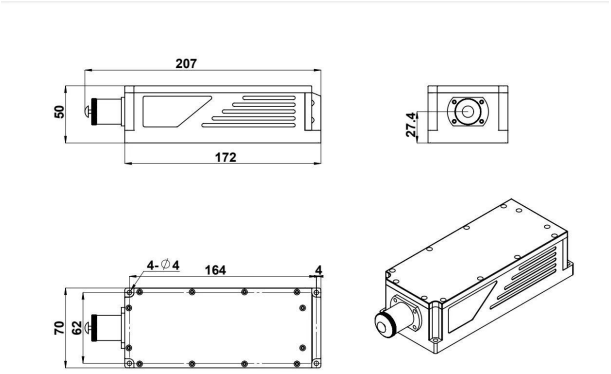
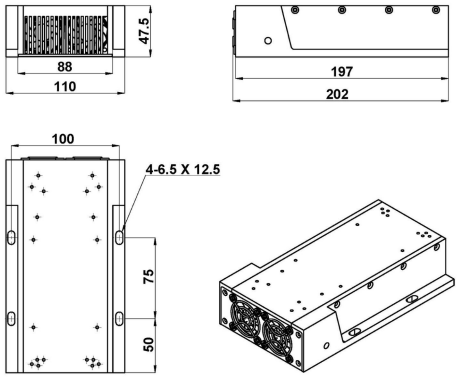
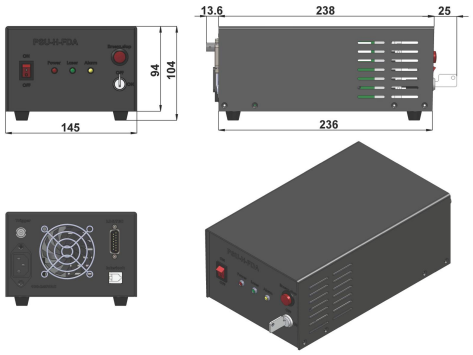
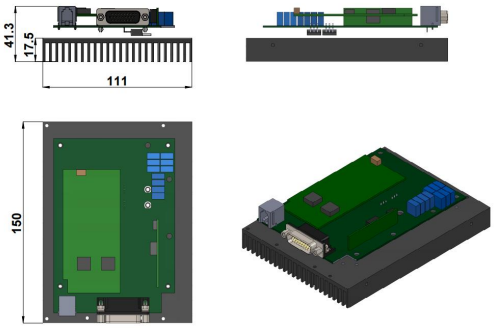
MLL-FN series (551-600nm)

LD PUMPED ALL-SOLID-STATE LOW NOISE LASER

The low-noise, all-solid-state laser features high output power stability, a good beam profile, an ultra-compact design, a long lifetime, and ease of operation. It is widely used in collimation, laser medical treatment, scientific experiments, optical instruments, and other fields.

SPECIFICATIONS

Wavelength (nm)	556±1	561±1	588±2	589±1	594±1
Operating mode	CW				
Output power (mW)[1]	1-200	200-400	200-300		1-50
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%				
Spectral line width (nm)	<0.1, (<0.003optional@1-150mW)		<0.1, (<0.003optional@1-200mW)		<0.1
Transverse mode	TEM_{00}				
Noise of amplitude (rms, 20Hz-20MHz)	<1%		<1%, <0.5%		<1%
M^2	<1.2				<1.5
Beam diameter at the aperture ($1/e^2$, mm)	<1.5				
Beam divergence (mrad)	<1.5				
Polarization ratio	>100:1, Vertical (Horizontal optional)		>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-02-FS)
	
207(L)×70(W)×50(H) mm³, 1.5kg	202(L)×110(W)×47.5(H) mm³, 1.25kg
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.