



MLL-FN series (601-700nm)



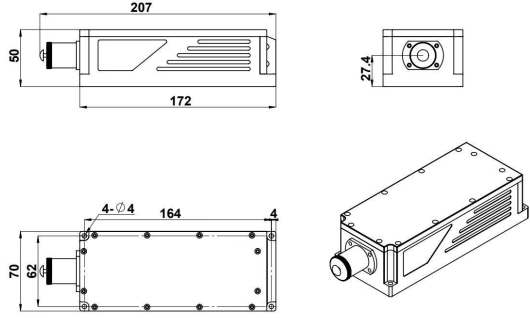
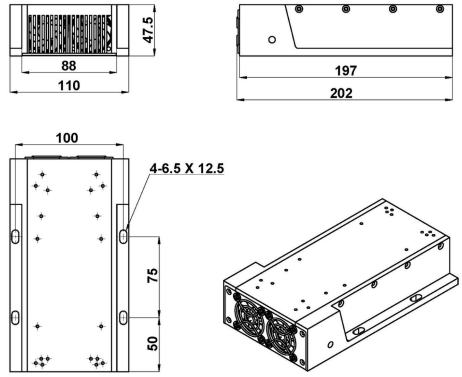
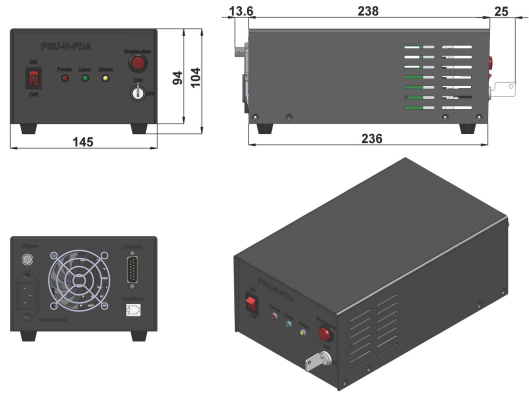
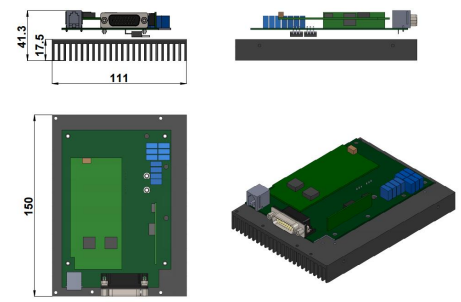
LD PUMPED ALL-SOLID-STATE LOW NOISE LASER

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



SPECIFICATIONS

Wavelength (nm) ¹	607±1	639±1		660±1	670±0.5		671±1	698±1
Operating mode	CW							
Output power (mW)	1-600	1-400	400-1500	1-200	1-200	200-500	500-1000	1-1000
Power stability (rms, 4 hours ±3°C)	<2%, <1%, <0.5%			<3%, <2%, <1%				<2%, <1%, <0.5%
Spectral line width (nm)	<0.1, (<0.003 optional@1-200)	<0.1, (<0.003 optional@1-400)		<0.1, (<0.003 optional@1-200)		<0.1		<0.1, (<0.003 optional@1-300)
Transverse mode	TEM ₀₀							
Noise of amplitude (rms, 20Hz-20MHz)	<1%	<1%, <0.5%	<1%	<1%, <0.5%		<1%		
M ²	<1.5	<1.2, <1.1	<1.2		<2.0	<1.2		<1.5
Beam diameter at the aperture (1/e ² , mm)	<1.5	<1.0		<2.0		~2.0		<2.0
Beam divergence, full angle (mrad)	<2.0	<1.5		<1.2		<1.5		
Polarization ratio	>100:1, Vertical (Horizontal optional)	>100:1, Horizontal (Vertical optional)				>100:1, Vertical (Horizontal optional)		>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 HEAD²  207(L)×70(W)×50(H) mm³, 1.5 kg	HEATSINK (optional TC-02-FS)  202(L)×110(W)×47.5(H) mm³, 1.25 kg
POWER SUPPLY (PSU-H-FDA)³  276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg	DRIVER (PSU-SR-OEM)³  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.