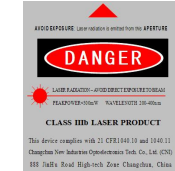


MBL-S series



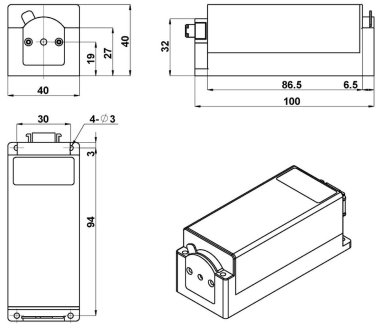
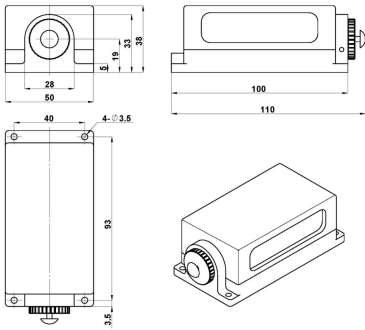
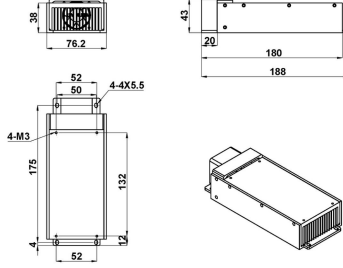
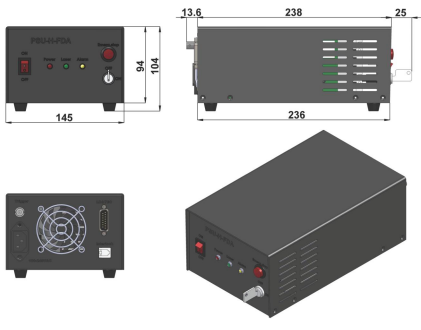
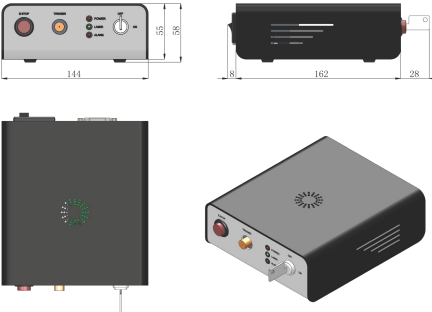
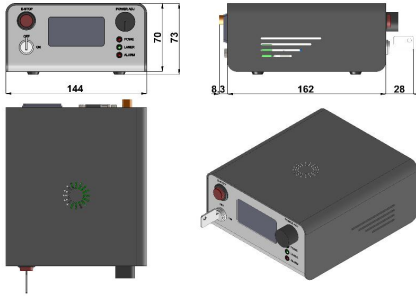
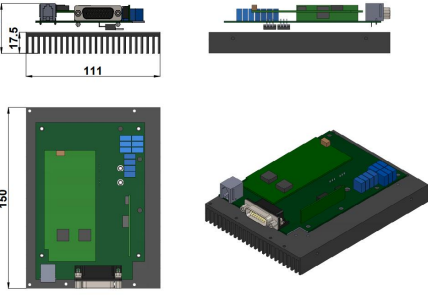
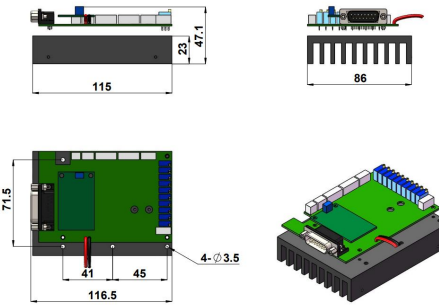
LD PUMPED ALL-SOLID-STATE LASER

The all-solid-state laser features high output power stability, an excellent beam profile, a compact size, a wide operating temperature range, effective sealing, a long lifetime, and cost-effectiveness. It operates at a low pressure of 0.02 kPa and is easy to use. This laser is widely used in collimation, medical treatment, scientific experiments, optical instrumentation, laser display, and laser lighting shows.



SPECIFICATIONS

Model	MBL-S-473	MBL-S-473-A (Harsh condition)
Wavelength (nm)	473±1	
Operating mode	CW	
Output power (mW) ¹	1-50	
Power stability (rms, 4 hours ±3°C)	<2%, <1%, <0.5%	
Transverse mode	TEM ₀₀	
M ²	<1.2	
Beam diameter at the aperture (1/e ² , mm)	<1.0	
Beam divergence (mrad)	<1.5	
Polarization ratio	>100:1, Vertical (Horizontal 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)	19	
Power consumption (W)	<30	
Shock tolerance (6ms)	7g laterally, 15g vertically	
Max. heat dissipation of head (W)	4W@25°C	10W@50°C
IP rating	IP65	IP67
Operating temperature (°C)	10-35	0-60
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional	
Power supply (100-240VAC)	PSU-A-F/PSU-A-D	PSU-H-FDA
Power supply (VDC)	PSU-A-F-OEM (5V/5A)	PSU-SR-OEM (12V/25A)
Expected lifetime (hours)	>10000	

LASER HEAD ²	LASER HEAD (Harsh condition) ²	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-H-FDA) ³
 100 (L) × 40 (W) × 40 (H) mm³, 0.36kg	 110(L) × 50(W) × 38(H) mm³, 0.6kg	 188(L) × 76.2(W) × 43(H) mm³, 0.65kg	 276.6(L) × 145(W) × 103.6(H) mm³, 2.3kg
POWER SUPPLY (PSU-A-F) ³	POWER SUPPLY (PSU-A-D) ⁴	DRIVER (PSU-SR-OEM) ⁴	DRIVER (PSU-A-F-OEM) ⁴
 198(L) × 144(W) × 58(H) mm³, 0.5kg	 198.3 (L) × 144(W) × 73(H) mm³, 0.6kg	 150(L) × 111(W) × 41.3(H) mm³, 0.8kg	 115(L) × 86(W) × 47.1(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.

3 Fixed output power.

4 Output power adjustable 10-100%; RS232 control optional.