MBL-U series

LD PUMPED ALL-SOLID-STATE LASER

The all-solid-state laser features ultra-compact size, long lifetime, high stability, and reliability. It is used in scientific experiments, medical measurements, instruments, and spectrum analysis.

SPECIFICATIONS

Wavelength (nm)	457±1		473±1	
Operating mode	CW			
Output power (mW)[1]	1-200	200-500	50-200	200-300
Power stability (rms, 4 hours ±3°C)	<2%,<1%, (<0.5% optional)	<3%,<2%,<1%	<2%,<1%, (<0.5% optional)	<3%,<2%,<1%
Transverse mode	TEM_{00}			
M^2	<1.5		<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)	27.4			
Laser head consumption (W)	15 (typical) , <25 (40°C)			
Operating temperature (°C)	10-35			
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional			
Power supply (100-240VAC)	PSU-H-LED/PSU-H-FDA/PSU-SR			
Power supply (12VDC)	PSU-SR-OEM (12V/25A)			
Expected lifetime (hours)	>10000			

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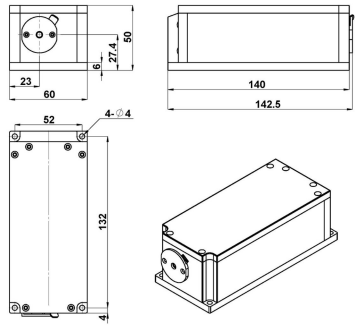
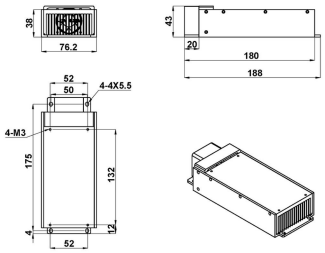
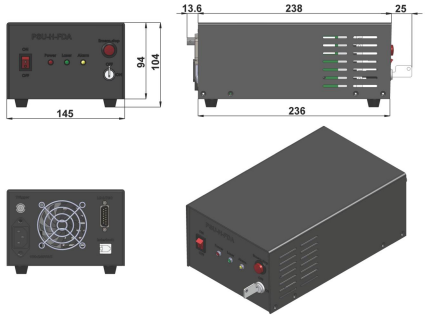
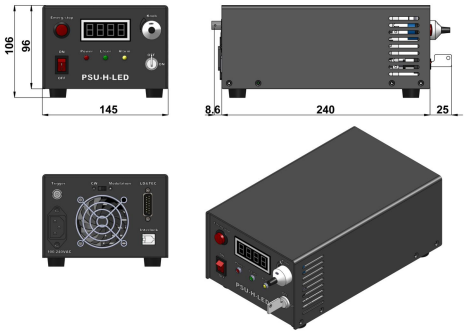
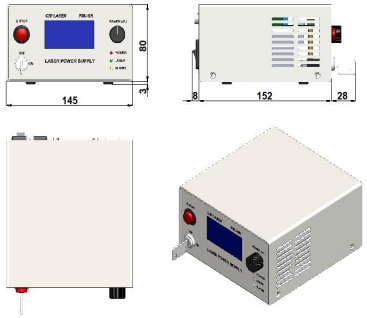
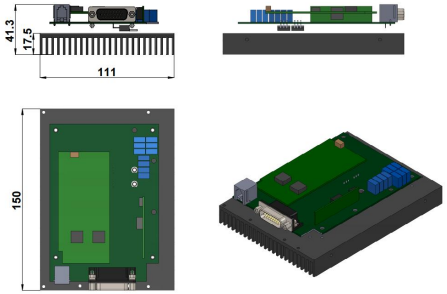
LASER HEAD[2]	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-H-FDA)[3]
		
142.5 (L)×60(W) ×50(H) mm³, 1.0kg	**188(L)×76.2(W)×43(H) mm³, 0.65kg**	**276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg**
POWER SUPPLY (PSU-H-LED)[4]	POWER SUPPLY (PSU-SR)[4]	DRIVER (PSU-SR-OEM)[4]
		
273.6 (L) ×145(W) ×106 (H) mm³, 2.3kg	**188(L) ×145(W) ×83(H) mm³, 1.2kg**	**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.

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

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