

MDL-III-850-SLD/1-4mW



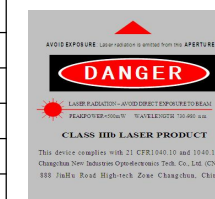
INFRARED DIODE LASER
AT 850nm

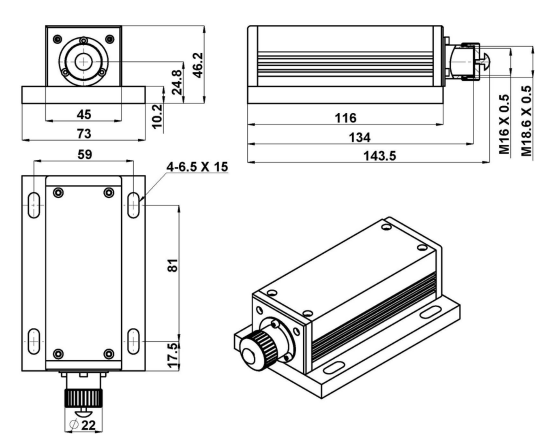
It features a wide spectral linewidth, short coherent length, long lifetime and easy operation. They are widely used in medical treatment, machine vision, metrology, fiber optic current sensing, etc.

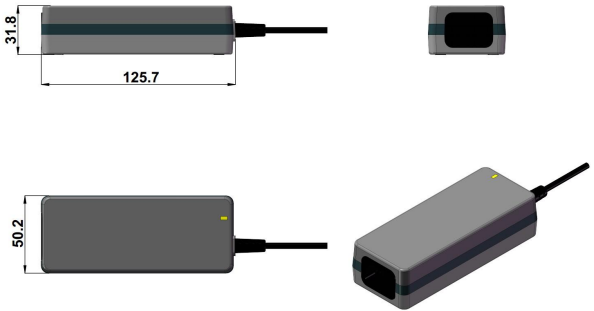


SPECIFICATIONS

Central wavelength (nm)	850±20
Spectral line width (nm)	~35
Operating mode	CW
Output power (mW) ¹	1-4
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%
Transverse mode	Near TEM ₀₀
M ²	<1.5
Beam diameter at the aperture (1/e ² , mm)	<2.5
Beam divergence, full angle (mrad)	<1.5
Warm-up time (minutes)	<5
Cooled method	Conduction
Beam height from base plate (mm)	24.8
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-III-FDA/PSU-III-LED/PSU-A-D/PSU-III-OEM
Modulation option	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional; TTL and Analog optional
Expected lifetime (hours)	>10000



LASER HEAD	POWER SUPPLY (PSU-III-FDA) ²	POWER SUPPLY (PSU-III-LED) ³
 143.5 (L) × 73 (W) × 46.2 (H) mm³, 0.7kg	 171 (L) × 130 (W) × 62.2 (H) mm³, 1.2kg	 179 (L) × 155 (W) × 92 (H) mm³, 1.5kg

POWER SUPPLY (PSU-A-D) ⁴	DRIVER (PSU-III-OEM) ²	POWER SUPPLY (100-240VAC) optional
 162 (L) × 144 (W) × 70 (H) mm³, 1.0kg	 100 (L) × 62 (W) × 55.2 (H) mm³, 0.5kg	 125.7 (L) × 50.2 (W) × 31.8 (H) mm³, 0.3kg

1 Any power level can be selected in this range.

2 Fixed output power; Modulation up to 30kHz.

3 Output power adjustable 10-100%; RS232 control optional; Modulation up to 30kHz.

4 Output power adjustable 10-100%; RS232 control optional; Modulation up to 100kHz.