

MDL-III-820-SLD-SM/1-12mW



INFRARED DIODE LASER
AT 820nm

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.

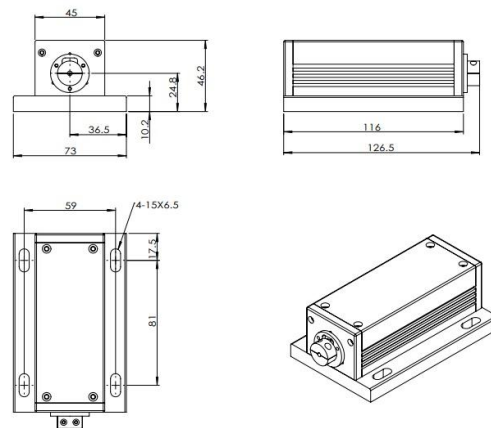


SPECIFICATIONS

Central wavelength (nm)	820±20
Spectral line width (nm)	~25
Operating mode	CW
Output power (mW) ¹	1-12
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%
Fiber type	SM fiber, PM fiber optional
Fiber Core diameter	4-9µm, 0.12NA
Fiber connector	FC/PC, FC/APC optional
Fiber length ²	1m
Fiber jacket	Metal, PVC optional
Transverse mode	TEM ₀₀
Ellipticity	>0.95
M ² after fiber	~1.1
Warm-up time (minutes)	<5
Cooled method	Conduction
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

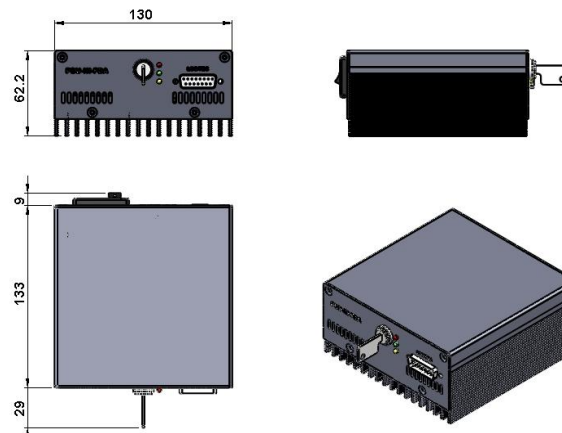


LASER HEAD



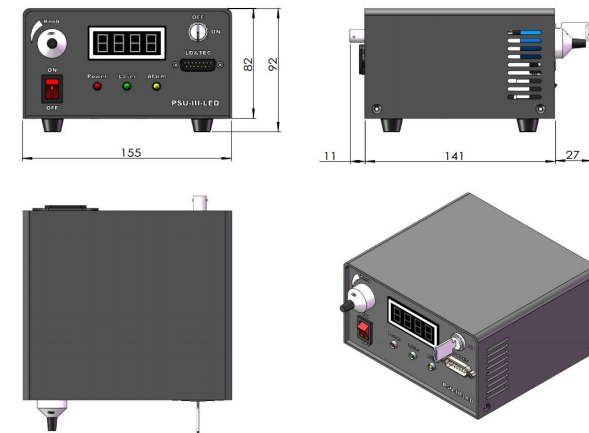
126.5 (L) × 73 (W) × 46.2 (H) mm³, 0.7kg

POWER SUPPLY (PSU-III-FDA)³



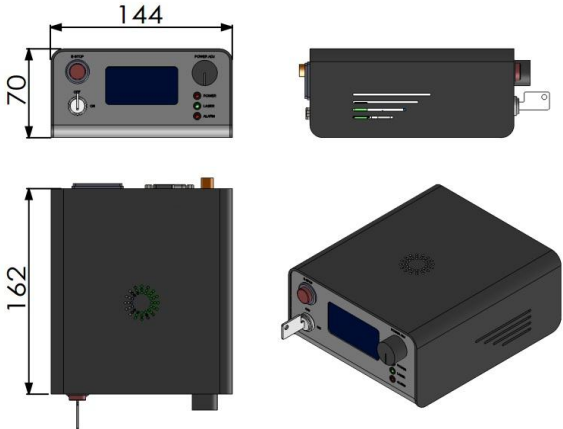
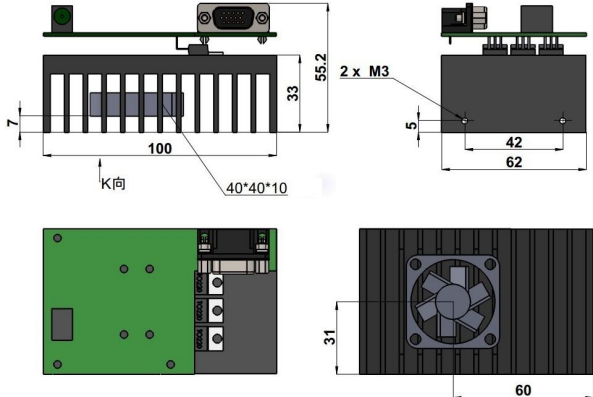
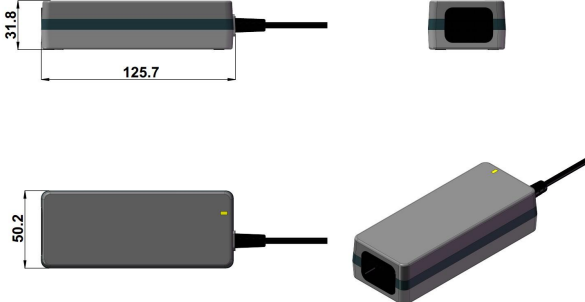
171 (L) × 130 (W) × 62.2 (H) mm³, 1.2kg

POWER SUPPLY (PSU-III-LED)⁴



179 (L) × 155 (W) × 92 (H) mm³, 1.5kg

Website: <http://www.cnilaser.com> E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-89216068

POWER SUPPLY (PSU-A-D) ⁵	DRIVER (PSU-III-OEM) ³	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 Other lengths are available on request.

3 Fixed output power; Modulation up to 30kHz.

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

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