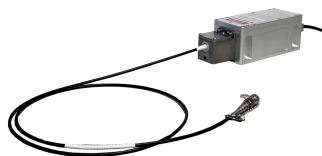




MIL-S-xxx-SM Series



SM FIBER OUTPUT LASER

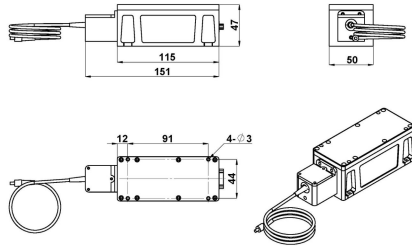
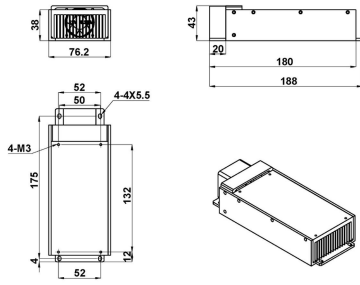
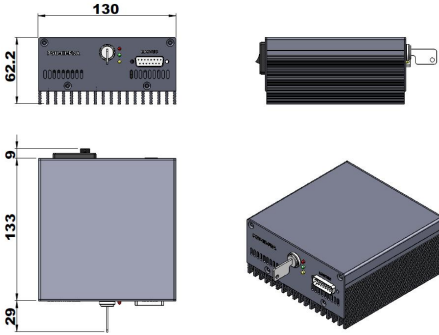
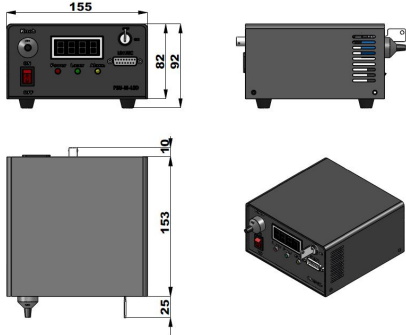
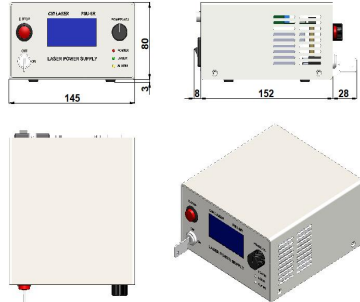
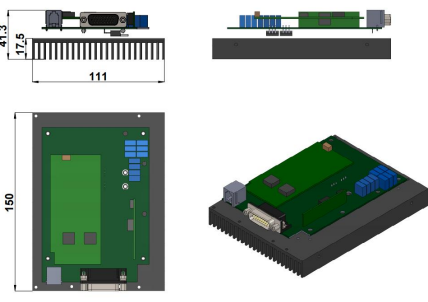
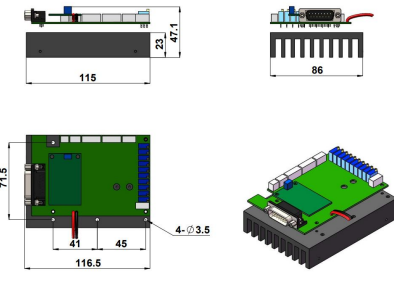
CNI has extensive experience in delivering highly efficient and stable fiber-coupled laser sources. All our laser types can be equipped with customized fiber coupling systems. The system described here is specifically designed for single-mode fiber (including polarization-maintaining, or PM, fiber) coupling, delivering high power stability and exceptional long-term performance.



SPECIFICATIONS

Wavelength (nm)	1064±1	
Operating mode	CW	
Output power (mW) ¹	1-1000	1000-1500
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%	
Transverse mode	TEM ₀₀ (single mode fiber output)	
M ²	<1.2	
Fiber numerical aperture	0.10~0.12	
Fiber type	SM fiber (PM fiber optional)	
Fiber connector	FC/APC	
Fiber jacket	PVC (black)	
Fiber length ²	1m	
Polarization (optional)	>50:1 after PM fiber	
Warm-up time (minutes)	<10	
Operating temperature (°C)	10-35	
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional	
Power supply (100-240VAC)	PSU-III-FDA/PSU-III-LED	PSU-SR
Power supply (VDC)	PSU-A-F-OEM (5V/5A)	PSU-SR-OEM (12V/25A)
Expected lifetime (hours)	>10000	

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LASER HEAD ³	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-III-FDA) ⁴	POWER SUPPLY (PSU-III-LED) ⁵
 151 (L) × 50 (W) × 47 (H) mm³, 0.7kg	 188(L)×76.2(W)×43(H) mm³, 0.65kg	 171 (L) × 130(W) × 62.2 (H) mm³, 1.2kg	 188(L) × 155(W) × 92 (H) mm³, 1.5kg
POWER SUPPLY (PSU-SR) ⁶	DRIVER (PSU-SR-OEM) ⁶	DRIVER (PSU-A-F-OEM) ⁶	
 188(L) × 145(W) × 83(H) mm³, 1.2kg	 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 Other lengths are available on request.

3 The laser head needs to be used on a heat sink with good heat dissipation.

4 Fixed output power.

5 Output power adjustable 10-100%.

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

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