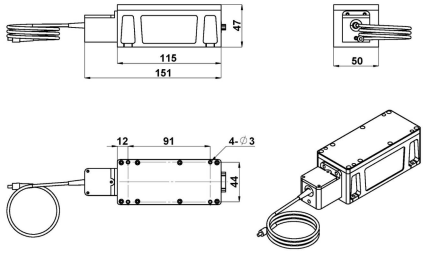
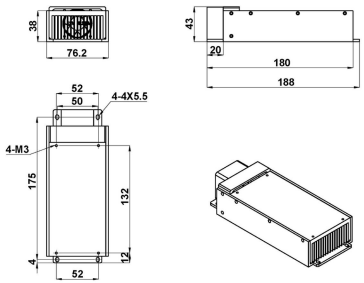
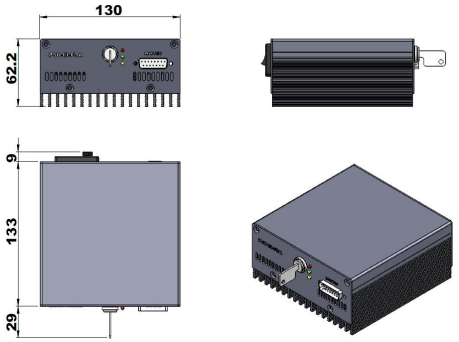
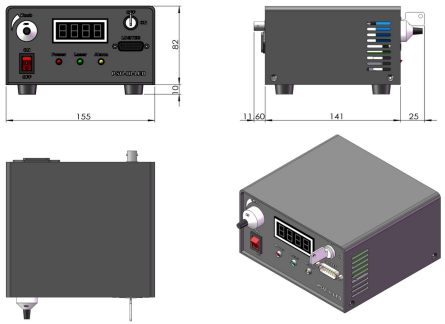
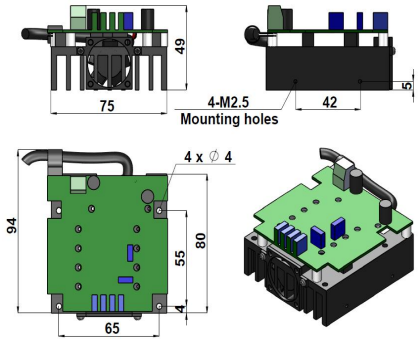
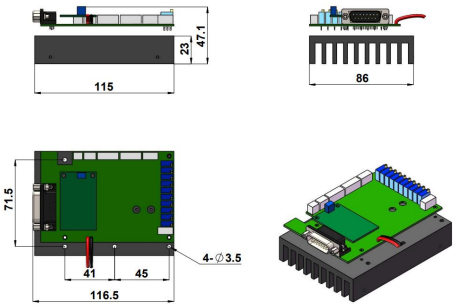
MGL-S-xxx-SM Series

SM FIBER OUTPUT LASER

CNI has extensive experience in delivering fiber-coupled laser light sources that provide high efficiency and long-term stability. A wide range of our lasers are available with appropriate fiber coupling systems. This particular model is specifically designed for coupling to single-mode fibers, including polarization-maintaining (PM) fibers, and delivers excellent power stability and long-term reliability.

SPECIFICATIONS

Wavelength (nm)	532±1		588±1	589±1
Operating mode	CW			
Output power (mW)[1]	1-50	50-150	1-20	
Power stability (rms, 4 hours ±3°C)	<2%, <1%, (<0.5% optional)	<3%, <2%, <1%		
Transverse mode	TEM_{00} (single mode fiber output)			
M^2	<1.1			
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			
Power supply (5VDC)	PSU-III-OEM-97 (5V/5A)		PSU-A-F-OEM (5V/5A)	
Expected lifetime (hours)	>10000			

LASER HEAD[3]	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-III-FDA)[4]
		
151 (L) × 50 (W) ×47 (H) mm³,0.7kg	188(L)×76.2(W)×43(H) mm³, 1.25kg	171 (L) ×130(W) ×62.2 (H) mm³, 1.2kg
POWER SUPPLY (PSU-III-LED)[5]	**DRIVER (PSU-III-OEM-97)[4]**	**DRIVER (PSU-A-F-OEM)[5]**
		
177.6(L) ×155(W) ×92 (H) mm³, 1.5kg	94(L)×75(W)×49(H)mm3, 0.23kg	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%; RS232 control optional.