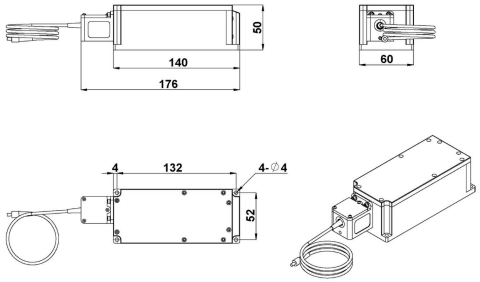
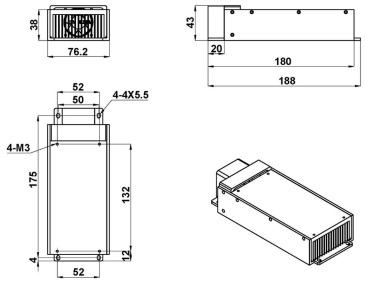
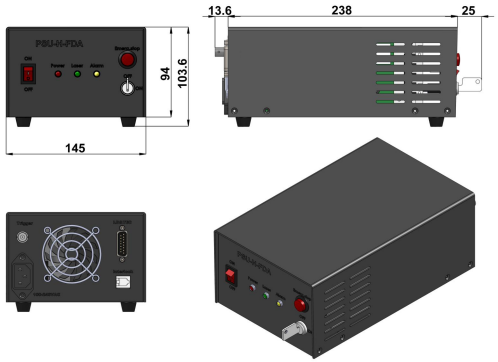
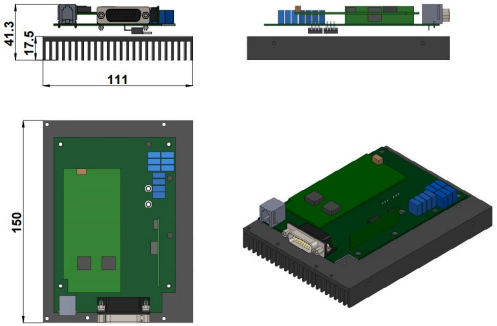
MLL-U-xxx-SM Series

SM FIBER OUTPUT LASER

CNI has extensive experience in delivering highly efficient and stable fiber-coupled laser sources. All our lasers can be equipped with appropriate fiber coupling systems, and this particular model is specifically designed for single-mode fiber (including PM fiber) coupling, offering high power stability and long-term reliability.

SPECIFICATIONS

Wavelength (nm)	473±1	532±1	561±1	588±1	589±1	671±1
Operating mode	CW					
Output power (mW)[1]	1-50	1-200	1-40	1-100	1-100	1-250
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%					<5%, <3%, <2%
Transverse mode	TEM_{00} (single mode fiber output)					
M^2	<1.1					
Fiber numerical aperture	0.10-0.15					
Fiber type	SM fiber (PM fiber optional)					
Noise of amplitude (rms, 20Hz-20MHz)	<1%					
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					
Power supply (100-240VAC)	PSU-H-FDA					
Power supply (12VDC)	PSU-SR-OEM (12V/25A)					
Expected lifetime (hours)	>10000					

LASER HEAD[3]	HEATSINK (optional TC-04-FS)
	
176 (L) × 60 (W) ×50 (H) mm³, 1.1kg	**188(L)×76.2(W)×43(H) mm³, 0.65kg**
POWER SUPPLY (PSU-H-FDA)[4]	DRIVER (PSU-SR-OEM)[4]
	
276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg	**150(L) ×111(W) ×41.3(H) mm³, 0.8kg**

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.