



FL-852-SLM/1mW-1W

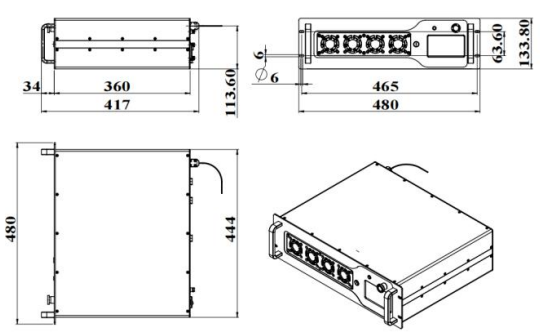
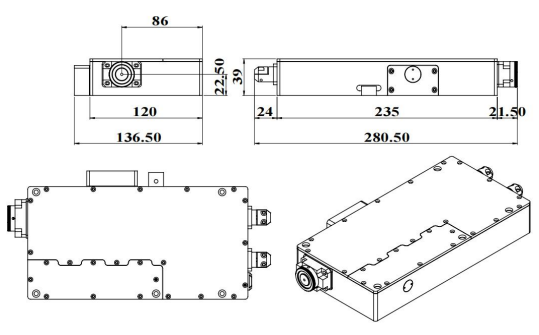
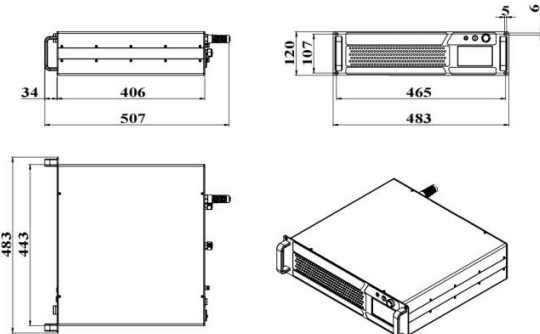
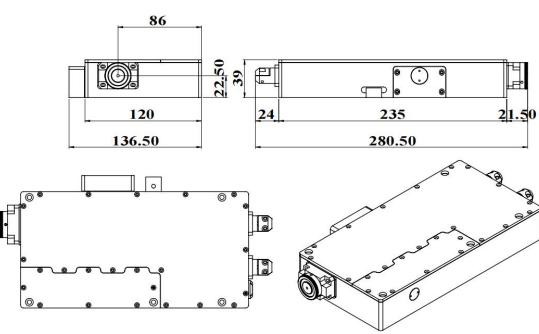
SINGLE LONGITUDINAL MODE FIBER LASER

The high-power, single-longitudinal-mode fiber laser are comprises a seed laser, an amplifier, and a nonlinear module. It is specifically designed for applications requiring high power stability and narrow linewidth, which has been designed for operation in quantum information and computing, quantum precision measurement, cold atom physics and high-resolution

SPECIFICATIONS

Wavelength (nm)	852±1	
Operating mode	CW	
Free space output power (mW) ¹	1-500	1-1000
Power stability (rms, 4 hours ±3°C)	<2%, <1%	
Transverse mode	TEM ₀₀	
Longitudinal mode	SLM	
Current adjustment range	1-100%	
Spectral linewidth (kHz)	<50	
Temperature turning range (nm)	>0.15	
PZT Tuning range (GHz)	>3	
PZT Tuning bandwidth (kHz)	>5	
Relative intensity noise (rms, 10Hz-3MHz)	<0.3%, <0.1%	
Frequency shift (MHz)(over ±2°Cand 8hours)	<±200	
M ²	<1.1	
Fiber length(m) ²	1.5-2	
Beam diameter (mm)	~1@free space output	
Pointing stability (urad)	<15	<50
Polarization ratio (dB)	>15 Horizontal (Vertical optional)	
Warm-up time (minutes)	<30	
Cooled method ³	Air cooled	Water cooled
Operating temperature (°C)	15-30	
Operating voltage (VAC)	110/220V	
Expected lifetime (hours)	>10000	



DIMENSION ⁴	
Fundamental Frequency	SFG Module (Free space)
 417(L)×480(W)×134(H) mm³, 10kg	 280.5(L)×136.5(W)×39(H) mm³, 3kg
DIMENSION ⁵	
Fundamental Frequency	SFG Module (Free space)
 461(L)×483(W)×120(H) mm³, 13kg	 280.5(L)×136.5(W)×39(H) mm³, 3kg

1 Any power level can be selected in this range.

2 Other fiber lengths are available on request.

3 Air cooled ($\leq 0.5W$); Water cooled ($\leq 1W$).

4 Air cooled.

5 Water cooled.