



FL-1xxx-SF-Seed/1-50mW

SINGLE FREQUENCY MODE SEED LASER

All polarization fiber single frequency mode seed laser at 1014-1120nm, excellent beam quality, narrow linewidth and high output power stability, which has been designed for operation in optical traps, pumping source, scientific research, quantum computing, etc.

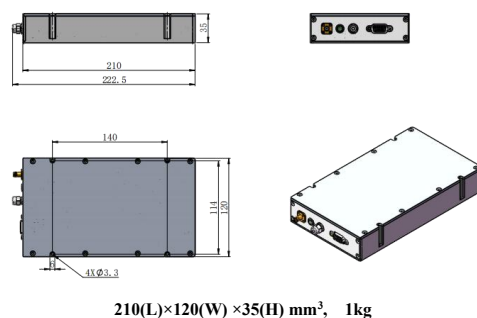


SPECIFICATIONS

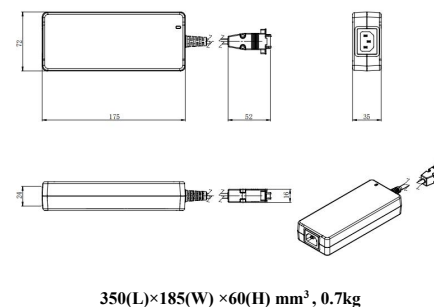
Selectable wavelength range(nm)	1014-1120			
Typical wavelength (nm)	1014, 1018, 1027, 1030, 1040, 1050, 1053, 1064, 1080, 1100			1120
Operating mode	CW			
Output power (mW)	1-10	10-30	30-50	1-5
Power stability (rms, 4 hours $\pm 3^{\circ}\text{C}$)	<3%, <2%, <1%			
Temperature Turning range (nm)	>0.5			
Output mode	Single-mode PM fiber			
Fiber core diameter	0.14NA			
Fiber connector ¹	FC/APC			
Fiber length(m) ²	1			
Fiber Jacket	PVC, Metal optional			
Spectral linewidth (kHz)	<10, <5			<100@1120nm
Polarization ratio (dB)	>20: after PM fiber			
M ²	TEM ₀₀ , <1.05			
Relative intensity noise (10Hz-10MHz)	<0.1%, <0.05%, (<0.03% optional)			
Relative intensity noise (dBc/Hz)	<-140(10MHz)			
Peak intensity noise (dBc/Hz)	<-130			
Relaxation oscillation peak frequency (MHz)	2-3			
PZT Turning range (GHz)	>3			
PZT Turning bandwidth (kHz)	>5			
Cooled method	Conduction cooled			
Operating temperature ($^{\circ}\text{C}$)	15-30			
Power dissipation (W)	12			
Operating voltage (VDC)	12V/6.67A			
Expected lifetime (hours)	>10000			



LASER HEAD (Driver integrated)



POWER SUPPLY (100-240VAC) optional



1 Other output mode can be customized. 2 Other lengths are available on request.