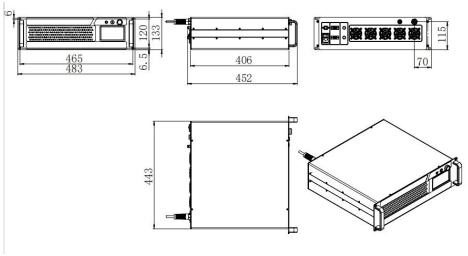
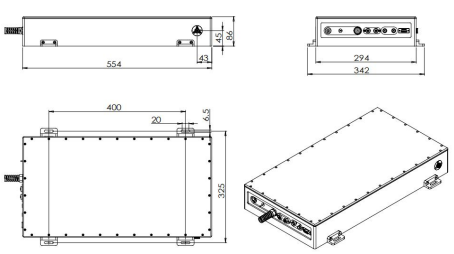
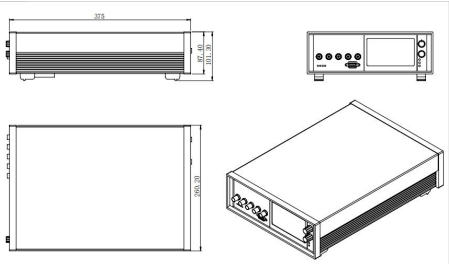
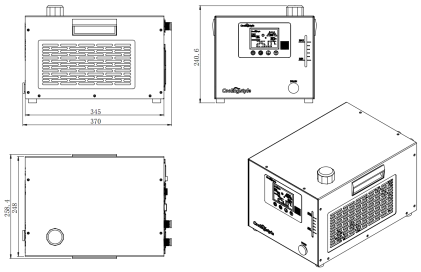
FL-532-SLM-E/20-40W

SINGLE LONGITUDINAL MODE LASER AT 532 nm

The high-power, single-longitudinal-mode, PM fiber laser has the features of stable output power, narrow linewidth, low intensity noise and excellent beam quality, which has been designed for laser cooling, optical lattice, pump laser for OPO, Ti:Saphire, biomedicine, fundamental light for UV laser, scientific research, etc.

SPECIFICATIONS

Wavelength (nm)	532±1
Operating mode	CW
Output power (W)[1]	20-40
Transverse mode	TEM_{00}
Longitudinal mode	SLM
Spectral linewidth (kHz) (100us integration time)	<50
Power stability (rms, 4 hours ±3℃)	<2%, <1%, <0.5%
Relative intensity noise (rms, 10Hz-3MHz)	<0.5%, <0.3%, <0.1%
M^2	<1.2
Beam diameter (mm)	~1.6
Beam divergence, full angle (mrad)	<1
Beam ellipticity	>90%
Pointing stability over temperature (urad/°C)	<50
Polarization ratio	Vertical, >100:1
Beam height from base plate (mm)	45
Warm-up time of warm boot(minutes)	<30
Warm-up time of cold boot(hours)	<2
Cooled method	Water cooled
Operating temperature (℃)	15-30
Operating voltage (VAC)	110/220VAC
Expected lifetime (hours)	>10000

DIMENSION			
Fundamental Frequency	Second harmonic	Control module	WATER CHILLER (WCH-580)
			
452(L)×483(W) ×133(H) mm³ 10kg	**554(L)×342(W) ×86(H) mm³ 21kg**	**375(L)×260(W) ×101(H) mm³ 4.3kg**	**258.4(L)×370(W) ×240.6(H) mm³, 10kg**

1 One fixed output power between 20-40W ;