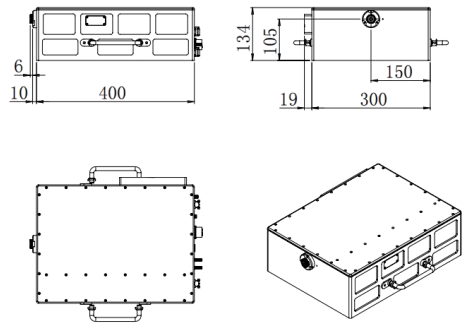
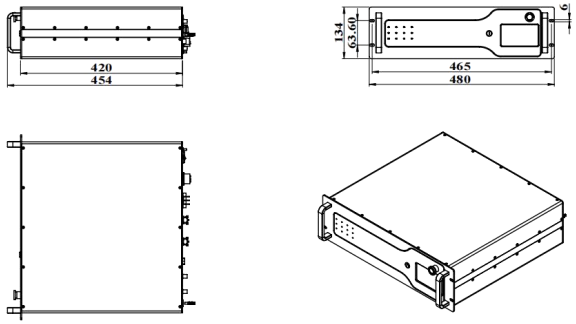
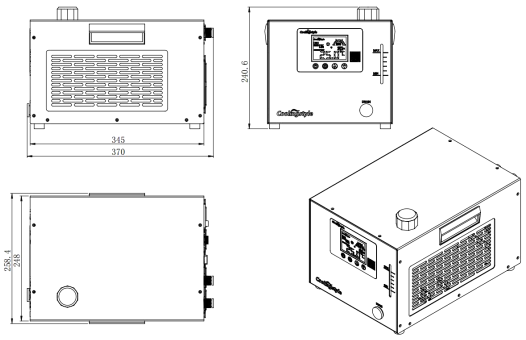
FL-532-SLM-E/20-40W

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 (urad)	<15	<50
Polarization ratio	Vertical, >100:1	
Beam height from base plate (mm)	105	
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	

LASER HEAD	POWER SUPPLY	WATER CHILLER (WCH-580)
		
416(L)×319(W) ×134(H) mm³, 29.1kg	**454(L)×480(W) ×134(H) mm³, 15.6kg**	**258.4(L)×370(W) ×240.6(H) mm³, 10kg**

1 One fixed output power between 20-40W ;