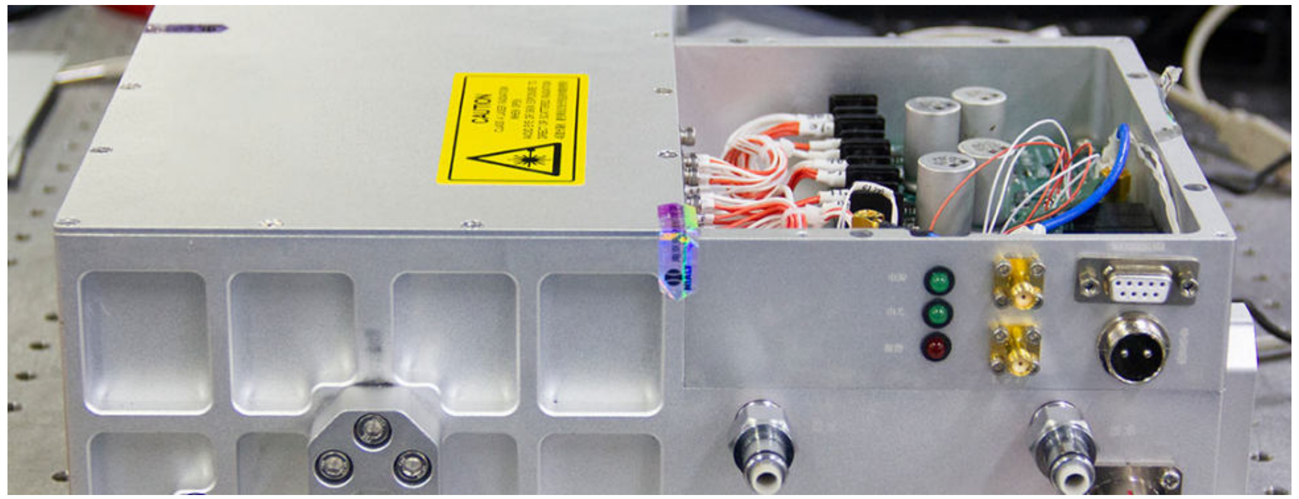
532nm Single Frequency Continuous Laser



Model		CL532-30W-SFCL001
Optical Parameter	Central Wavelength (nm)	532±1
	Output Power (W)	5～30
	Line Width (KHz)	＜10
	Frequency Stability (MHz@30min)	＜3
	Power Stability	＜±0.5%@2h
	Power Adjustable Range	10%-100%
	Beam Diameter（ 1/e2）	＜2
	Beam Quality M2	＜1.5
	Beam Divergence Angle (mrad)	＜0.5
	Spectral Line Width (nm)	＜±0.5
	Polarization Extinction Ratio	＞100:1
Function Parameter	Output Method	Spatial Light Output
	Control Interface	DB9，RS422
	Powered by	220VAC/50Hz
	Output Power (W)	＜300
Environmental Requirements	Operating Temperature (℃)	0 ～ 30
	Storage Temperature (℃)	-10 ～ +60
	Humidity	0-80%
Weight and Size	Laser Head Weight (Kg)	＜15
	Power Weight (Kg)	＜5
	Laser Head Size	444*232*150
	Power Size	2U

DESCRIPTION

The single frequency series laser includes single frequency continuous seed source, single frequency continuous amplification + frequency multiplier, single frequency high energy solid-state laser. Based on the non planar ring cavity technology, resonance detection technology, external cavity resonance frequency doubling technology and other engineering technology, the full parameter multi band laser product coverage from narrow linewidth seed source, excitation amplification to nonlinear frequency conversion is realized. By means of advanced engineering design means, the reliability and stability of products are effectively guaranteed in the light mechanical thermal integration analysis, automatic electronic control system development, etc. This series of products are widely used in lidar systems such as Doppler lidar, laser debris observation, laser remote sensing, etc., with the following technical advantages, Hyperspectral characteristics to meet the spectrum fine analysis. High quality seed light injection, excellent power amplification. Resonance detection technology ensures the single frequency characteristics of each pulse; Frequency locking and stabilizing technology

The optical fiber + solid-state scheme can output 532nm green light of > 50W. It adopts PDH frequency locking technology, which is compact, stable and reliable.

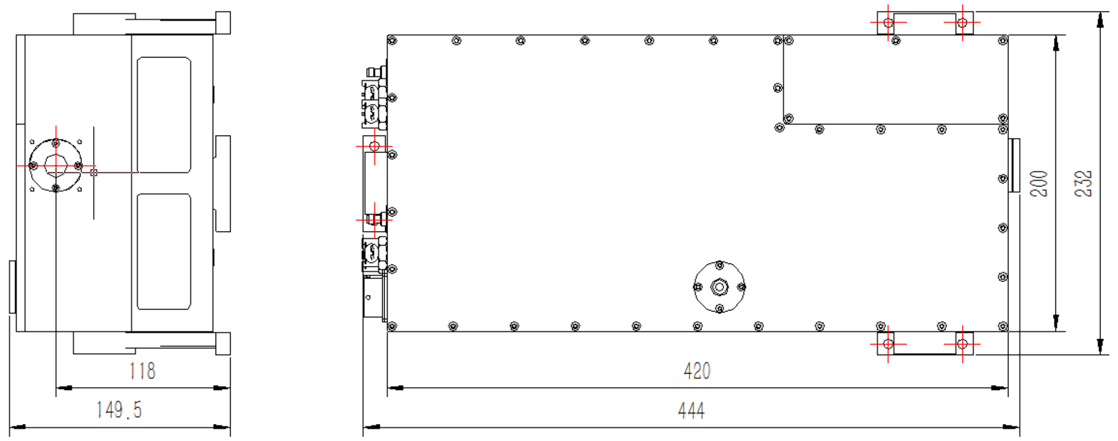
FEATURES

- Front-end fiber + back-end solid frequency doubling
- High stability
- Tunable
- Compact structure, ideal for OEM applications

APPLICATIONS

- Titanium sapphire pump
- Lidar
- Scientific research

LASER HEAD SIZE CHART



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