532nm narrow linewidth laser(resonance)

PreciLasers' 532nm laser uses a 1064nm laser as a seed, and is output after fiber amplification and resonant frequency doubling. It has the Featuress of narrow linewidth, high frequency stability and low intensity noise, and can be widely used in optical precision measurement, nonlinear optical optical pumping, Quantum computing and other fields.

Features
- Narrow Line width
- Tunable
- Linear polarization
- Continuous laser

application
- Optical precision measurement
- Optical Pumping for Nonlinear Optics
- Quantum computing

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Optical parameters			
Wavelength Optional range	532nm		
Output power	15W	20W	30W
Tuning range (temperature)	±0,15nm		
Output Mode	Spatially collimated output		
Linewidth[1](100us integration time)	< 20kHz		
Polarization extinction ratio	< 20dB		
Power Stability (3 Hours RMS)	< 0.75%		
Beam quality	$M^2 < 1.1$		
Intensity noise (10Hz-10MHz integration)	< 0.06%		
Cooling method	Air Cooling		Water Cooling

(1) Fiber-delay self-heterodyne beat frequency method measurement

| Options	
AOM options	Adding AOM and VCO driver between seed and amplifier enables 500kHz tuning bandwidth and >±5MHz tuning range
EOM-RF Option	Adding EOM between the seed and the amplifier to achieve sideband modulation

Other parameters	
Weight	< 25kg
Working temperature	15-25℃
Power consumption	< 560W
Supply electricity	100V-220V, AC, 50Hz

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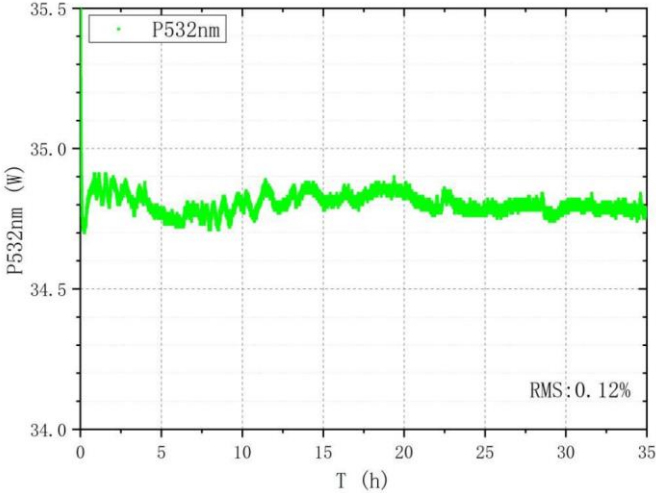
❖ Product Dimensions
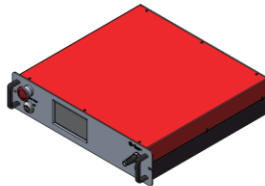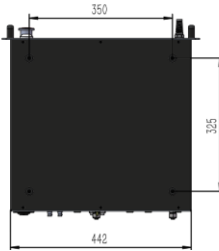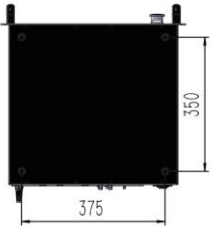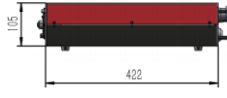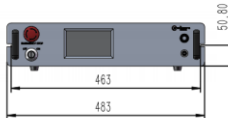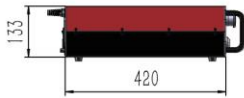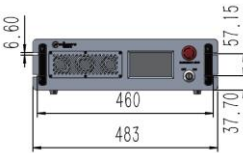
Air-cooled chassis dimensions

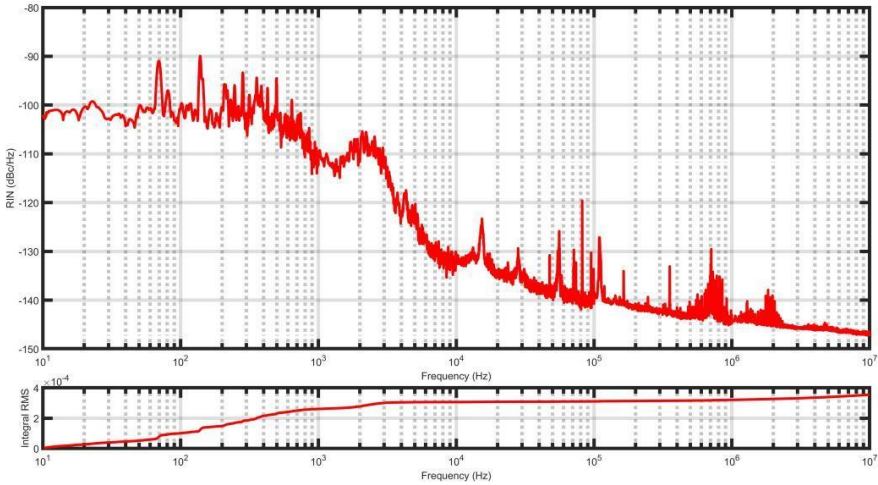Water cooling chassis dimensions
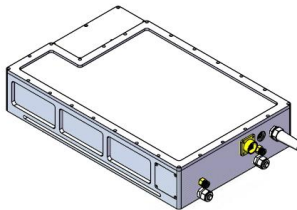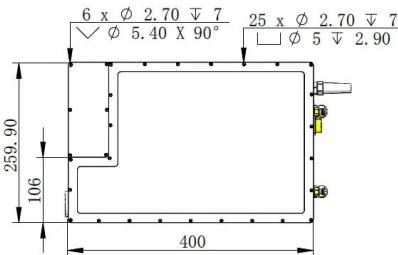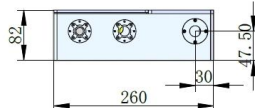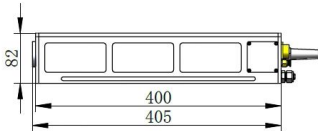
Resonant frequency doubling head dimensions

❖ Performance index test (typical value)

Power stability test chart:RMS=0,21%,35h

Relative intensity noise test（RIN）:0.04%[10Hz-10MHz]

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⚠ **Laser Hazard**

Visible or invisible laser radiation, avoid
eye or skin exposure to direct, reflected
or filtered radiation.
CLASS 4 Laser Products