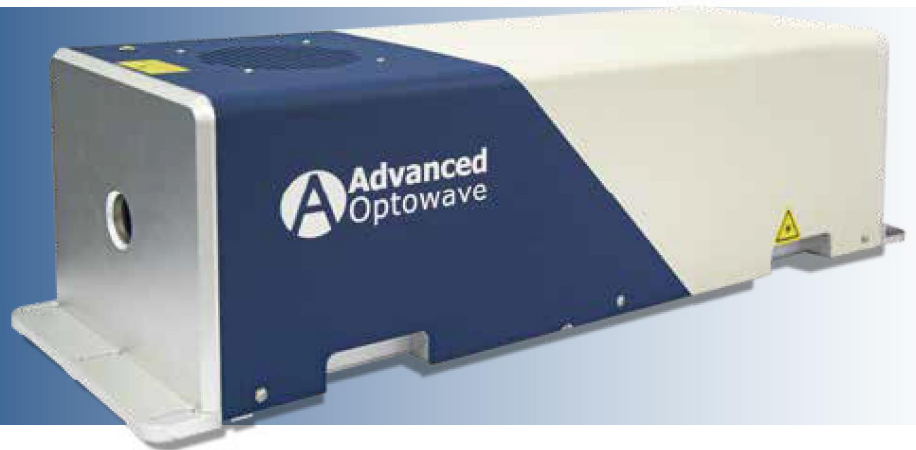


AONano Precision Series

Industrial Green nanosecond laser

- Excellent performance
- Expanded the operating frequency range
- Flexible control mode
- Comprehensive power coverage



► Features & Benefits:

This is the high-power version of our AONano Compact-532 laser series. The all-in-one design makes the laser more compact and reduces the total weight. It saves space for installation on the customer side, lowers the integration cost and simplifies the installation process. The water-cooled design allows the laser to work reliably in various harsh and extreme environments and makes the laser to be the ideal candidate for the 7x24 non-stop production needs.

The output power of 20W, 35W, and up to 55W are available for selection. With the world-leading harmonic generation techniques, it has the highest conversion efficiency. With excellent beam quality, wide repetition rate and flexible control method, it is the perfect candidate for various application areas, including FPC/PCB cutting, solar cell processing, wafer processing and so on.



PCB cutting



Ceramic cutting/Scribing

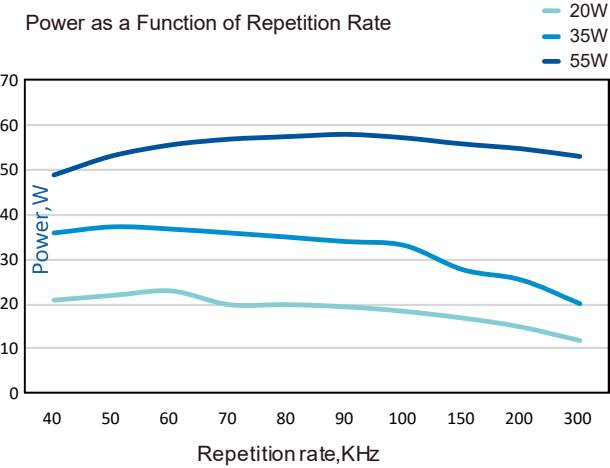


Carbon fiber cutting

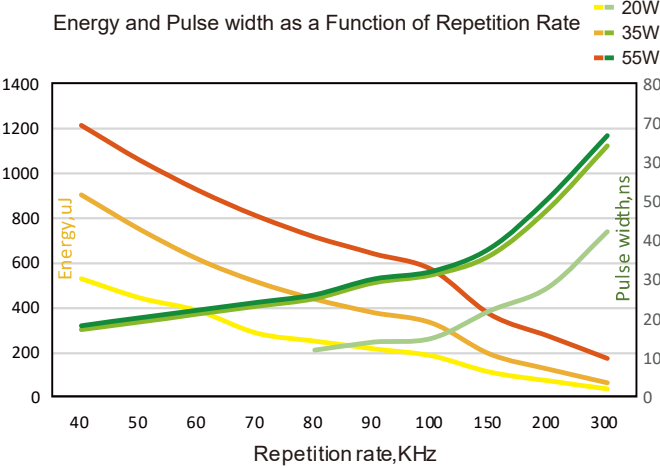


Ferrite cutting

Typical Performance AONano Precision 532-20W/35W/55W
Power as a Function of Repetition Rate



Typical Performance AONano Precision 532-20W/35W/55W
Energy and Pulse width as a Function of Repetition Rate



AONano Precision 532			
Specification	20W-50K	35W-50K	50W-50K
Wavelength (nm)	532		
Average Power (Watts)	>20W@50KHz	>35W@50KHz	>50W@50KHz
Energy (μJ)	> 400	>700	>1mJ
Specified Repetition Rate(kHz)	50	50	50
Repetition Rate (kHz)	30-150	40-300	
Pulse Width (ns)	<15	<22	<20
Beam Quality (M²)	<1.2		
Beam Roundness (%)	>90		
Beam Diameter (mm)	~0.85		
Beam Divergence (mRad)	<2		
Point Stability (μrad/°C)	<20		
Polarization Ratio	100:1 Linear, Vertical		
Pulse-to-Pulse Stability (% RMS)	<2	<3	
Average Power Stability(% over12 hours)	<3		
Cold Start Warm-Up (mins.)	<40		
Standby Warm-Up (mins.)	<10		
Operational Temperature Range (°C)	15 to 35		
Operation Humidity Range (%)	20 to 80,non-condensing		
Storage Temperature Range (°C)	- 20 to 50		
Storage Humidity Range (%)	20 to 80,non-condensing		
Input Voltage (VDC)/Rated Power(W)	24/450	24/600	24/600
Communication	RS232		
Cooling	Water		
Laser head (kg)	20		

AONano Precision SERIES

AONano Precision -532 Laser Size

