AONano Precision Series

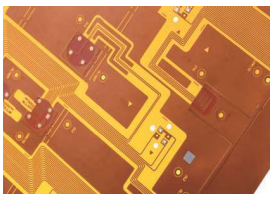
Industrial UV nanosecond laser

- < Automatic power optimization
- < Power monitoring available
- < Crystal indexing
- < Automatic power optimization
- < Intracavity clean air system
- < IP65 rating

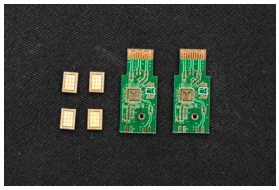
Features & Benefits:

This is the upgraded version of our AONano Precision-355 laser series. With the intelligent features listed below, the long-term stability of the laser is significantly improved, and the service time/cost is greatly reduced.

The output power of the laser can be controlled by either the PWF parameter in the graphic user interface (GUI) of the laser or the duty cycle of the external PWM control signal. The IP protection level is upgraded to IP65. Advanced features, including crystal indexing, clean air system, and automatic power optimization function enable the long-term stability and reliability of the laser It is the best choice for high precision micromachining, marking-on-the-fly in a packaging line, FPC/PCB cutting and other applications.

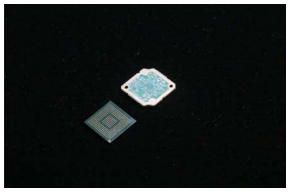


FPC cutting

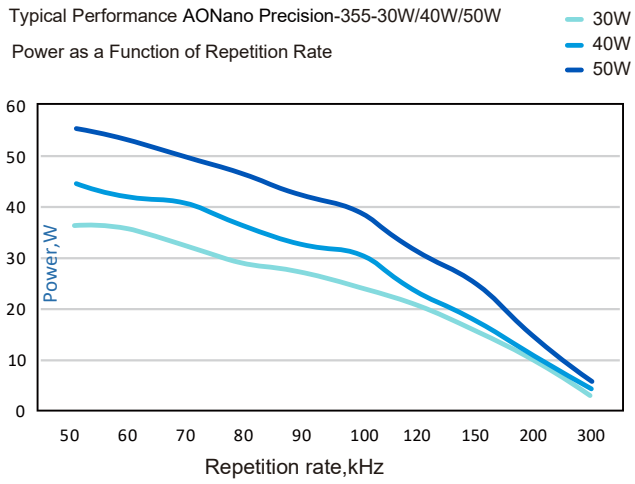


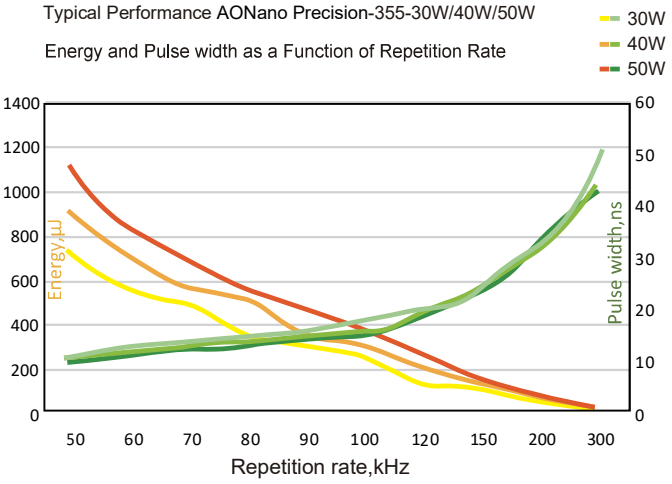
PCB cutting

Precision metal cutting



IC carrier board cutting





AONano Precision 355			
Specification	**30W-50K**	**40W-60K**	**50W-60K**
Wavelength (nm)	355		
Average Power (Watts)	>30W@50KHz	>40W@60KHz	>50W@60KHz
Energy (μJ)	>600	>660	>830
Specified Repetition Rate(kHz)	50	60	
Repetition Rate (kHz)	50-300		
Pulse Width (ns)	<17		
Beam Quality (M^2)	<1.2		
Beam Roundness (%)	>90		
Beam Diameter (mm)	~0.7		
Beam Divergence (mRad)	<2		
Point Stability (μrad/°C)	< 20		
Polarization Ratio	100:1 Linear,Horizontal		
Pulse-to-Pulse Stability (% RMS)	< 3		
Average Power Stability(% over12 hours)	< 3		
Cold Start Warm-Up (mins.)	< 40		
Standby Warm-Up (mins.)	< 10		
Operational Temperature Range (°C)	5-40℃		
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)	24/600	24/1000	
Power Consumption(W)	< 310	< 350	< 410
Communication	RS232		
Cooling	Water		
Weight (kg)	21		

AONano Precision SERIES

AONano Precision Laser CAD Drawing