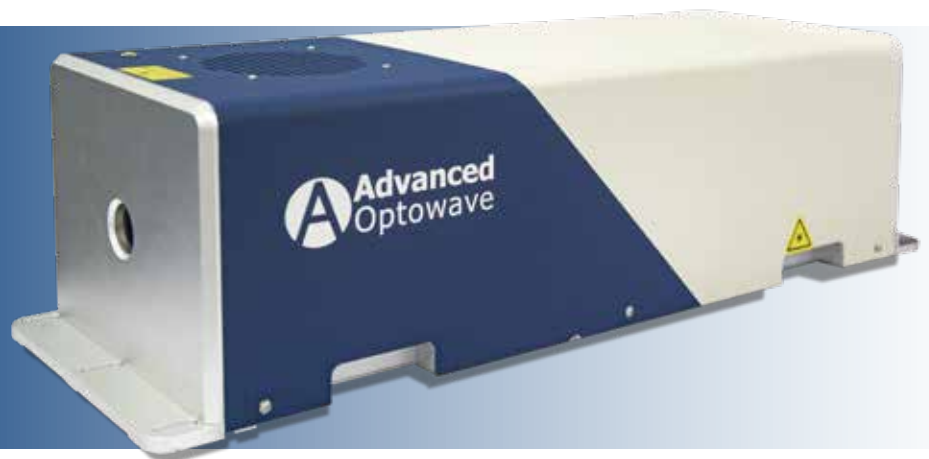


AONano Precision Series

Industrial UV nanosecond laser

- All-in-one design
- Comprehensive power coverage
- Excellent beam quality ($M^2 < 1.2$)
- Flexible control mode



► Features & Benefits:

This is the high-power version of our AONano Compact-355 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 15W, 20W, 25W and up to 40W 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 precise micro-machining, on-fly marking, FPC/PCB cutting and so on.



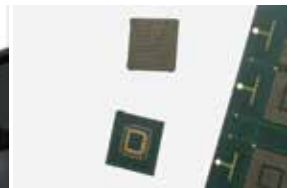
FPC/PCB cutting&drilling



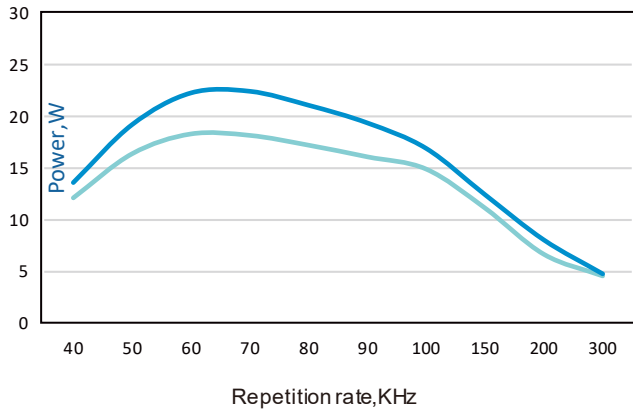
Carbon fiber cutting



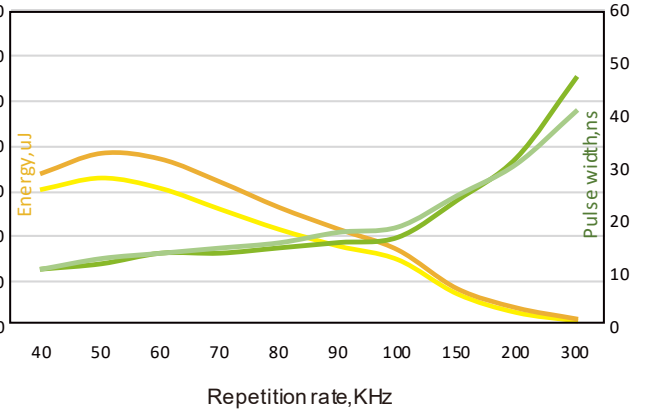
Mobilephone module/Fingerprint module cutting



Typical Performance AONano Precision-355-15W/20W
Power as a Function of Repetition Rate



Typical Performance AONano Precision-355-15W/20W
Energy and Pulse width as a Function of Repetition Rate



AONano Precision 355		
Specification	15W - 50K	20W - 60K
Wavelength (nm)	355	
Average Power (Watts)	>15W@50KHz	>20W@60KHz
Energy (µJ)	>300	>400
Specified Repetition Rate(kHz)	50	60
Repetition Rate (kHz)	40~300	
Pulse Width (ns)	<15	
Beam Quality (M ²)	<1.2	
Beam Roundness (%)	>90	
Beam Diameter (mm)	~0.55	~0.47
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°C	
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
Communication	RS232	
Cooling	Water	
Weight (kg)	20	

AONano Precision SERIES

AONano Precision -355 Laser Size

