

AONano Compact Pro Series Air-cooled

Industrial UV nanosecond laser

- < Semiconductor cooling technology
- < Automatic end mirror adjustment
- < Power monitoring function available
- < Crystal indexing
- < Automatic power optimization
- < Remote diagnosis and troubleshooting



► Features & Benefits:

This is the upgraded version of our air-cooled AONano Compact-355 laser series. The all-in-one design with a compact size and low weight saves the installation space, reduces the integration cost and simplifies the installation and disassemble processes for customers. It also eliminates the risk of failure caused by the wire connection and the difficulties dealing with the umbilical with a separate laser head and controller. Advanced features, including crystal indexing, and automatic power optimization function enable the long-term stability and reliability of the laser.

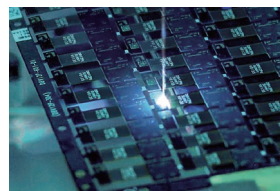
Both 3W and 5W versions are available. The operating frequency ranges from 10kHz to 300kHz. The pulse energy is 100μJ+. It is the perfect choice for material surface laser marking/engraving, marking-on-the-fly in a packaging line, glass internal engraving, 3D printing and other applications.



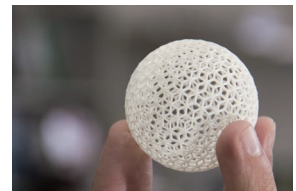
Brittle material marking



3C marking



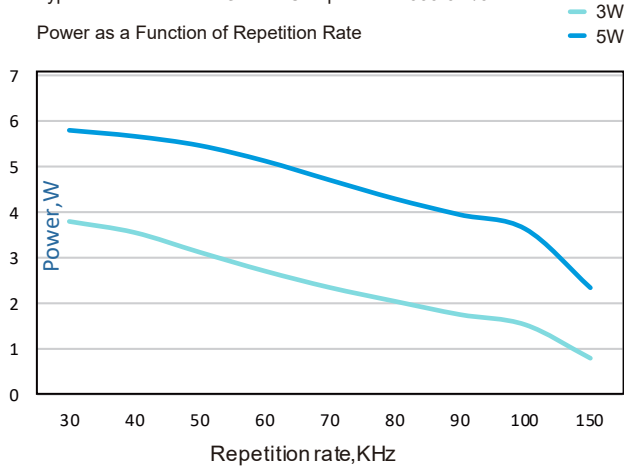
FPC/PCB marking



3D printing

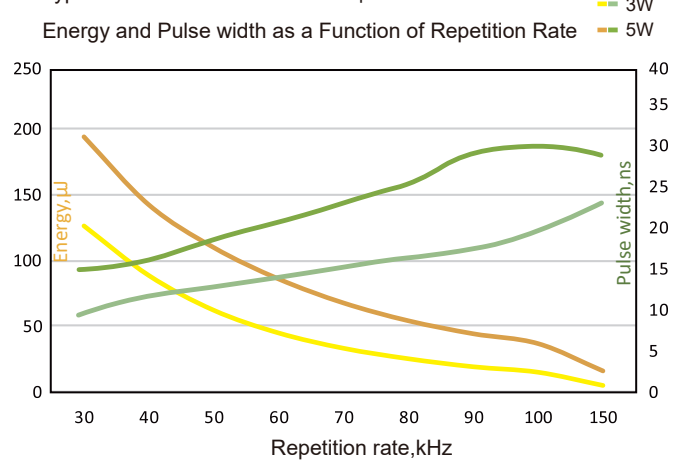
Typical Performance AONano Compact Pro -355-3W/5W

Power as a Function of Repetition Rate



Typical Performance AONano Compact Pro-355-3W/5W

Energy and Pulse width as a Function of Repetition Rate



AONano Compact Pro 355		
Specification	3W-30K	5W-30K
Wavelength (nm)	355	
Average Power (Watts)	>3W@30KHz	>5W@30KHz
Energy (μJ)	>100	>160
Specified Repetition Rate(kHz)	30	
Repetition Rate (kHz)	10 ~ 300	
Pulse Width (ns)	<15	
Beam Quality (M ²)	< 1.2	
Beam Roundness (%)	> 90	
Beam Diameter (mm)	~0.45	
Beam Divergence (mRad)	< 1.5	
Point Stability (μrad/°C)	< 20	
Polarization Ratio	100:1 Linear, Horizontal	
Pulse-to-Pulse Stability (% RMS)	< 3	
Average Power Stability(% over 12 hours)	< 3	
Cold Start Warm-Up (mins.)	< 40	
Standby Warm-Up (mins.)	< 10	
Operational Temperature Range (°C)	15°C~35°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	
Power Consumption(W)	< 110	< 130
Communication	RS232	
Cooling	Air	
Laser head (kg)	7.2	

AONano Compact Pro SERIES(air cooling)

AONano Compact Pro -355 (air cooling) Laser CAD Drawing

