

# AONano Compact(ONE) air cooling

## Industrial UV nanosecond laser



### Features & Benefits:

AONano Compact -355 air cooling laser, including 3w and 5w model, the pulse energy up to 100uJ, the repetition rate is 30K-150K, low frequency lasers can be customized according to customer's demand.

It can be operated through TTL level signals and external control PWM pulse width modulation signals. The PWF function allows customers to adjust the power output of the laser under internal control mode through software.

The air-cooled design, good heat dissipation structure ensure it runs in an environment of 15-30 °C, the connection line between the laser head and the controller can be customized according to customer's demand, adapting to various optical paths and mechanical designs.

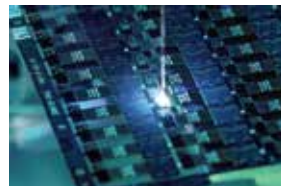
The short pulse width (<15ns@50k), excellent beam quality ( $M2 < 1.2$ ) and beam roundness (>90%) make it a perfect choice for material surface marking, flying marking, glass engraving, 3D printing, and so on.



package marking



3C marking



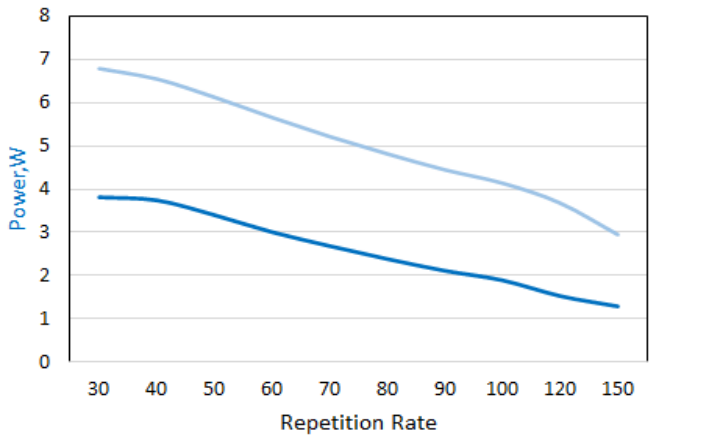
FPC/PCB marking



3D printing

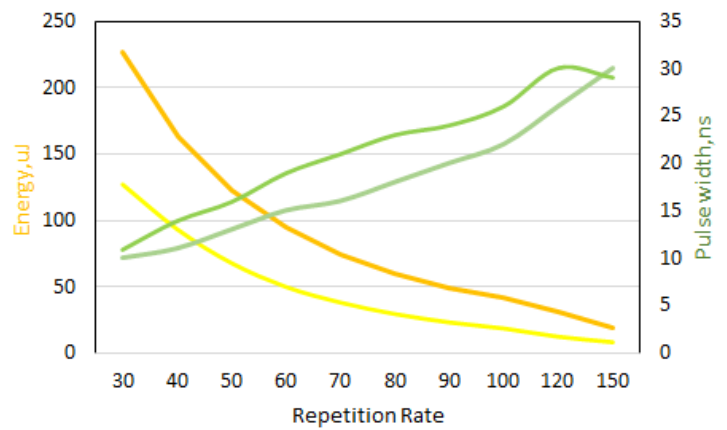
Typical Performance AONano Compact-355-3W/5W-A

Power as a Function of Repetition Rate



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

Energy and Pulse width as a Function of Repetition Rate



AONano Compact(ONE) 355		
Spec*	3W-30K	5W-30K
Wavelength(nm)	355	
Average power(Watts)	>3W@30KHz	>5W@30KHz
Pulse energy(μJ)	>100	>160
pecified Repetition Rate(kHz)	30	
Repetition Rate(kHz)	30 ~ 150	
Pulse width(ns)	<15	
Beam Quality (M <sup>2</sup> )	< 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)	15-35°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)	12/350	
Communication	RS232	
Cooling	Air	
Weight (kg)	5.48	

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Laser Size

