

AONano Compact(ONE) SERIES (water cooling)

Industrial UV nanosecond laser



Features & Benefits:

AONano Compact(ONE)-355 adopts the newest all-in-one design with a small size, which can save installation space and bring fast and low-cost integration to the integrators.

It combines the laser head and power supply, not only increases the anti-interference ability but also reduces the risk of malfunction and improves stability.

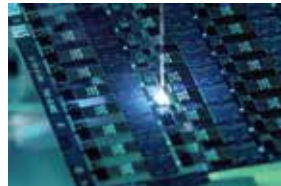
Its power ranges from 3w, 5w to 10w, the water-cooling design, and the excellent beam quality, beam roundness, and pulse stability make it easily adapt to various environments. It is a perfect choice for industrial applications, such as material surface marking, flying marking, glass engraving, 3D printing, etc, which can achieve a shorter product development period and faster return on investment.



Package marking



3C marking

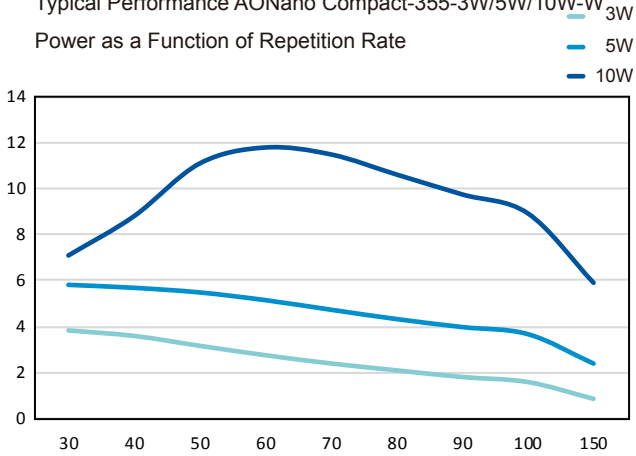


FPC/PCB marking

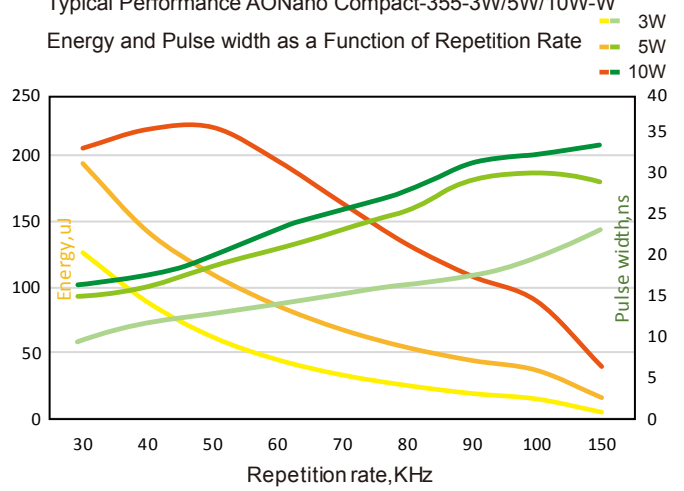


3D printing

Typical Performance AONano Compact-355-3W/5W/10W-W
 Power as a Function of Repetition Rate



Typical Performance AONano Compact-355-3W/5W/10W-W
 Energy and Pulse width as a Function of Repetition Rate



AONano Compact 355			
Specification	3W-30K	5W-30K	10W-50K
Wavelength (nm)	355		
Average Power (Watts)	>3W@30KHz	>5W@30KHz	>10W@50KHz
Energy (μJ)	>100	>160	>200
Specified Repetition Rate(kHz)	30	30	50
Repetition Rate (kHz)	30 ~ 150		
Pulse Width (ns)	<15		<13
Beam Quality (M ²)	< 1.2		
Beam Roundness (%)	> 90		
Beam Diameter (mm)	~0.45		0.65
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(% 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)	24/350		24/450
Communication	RS232		
Cooling	Water		
Weight (kg)	4.9		6.5

AONano Compact SERIES (water cooling)

AONano Compact(ONE) -355 (air cooling) Laser Size

