### AONano Compact (ONE) Series Air - cooled

#### Industrial UV nanosecond laser



### Features & Benefits:

This is the upgraded version of our air-cooled 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 laser works reliably in the temperature range from 15°C to 35°C due to its industrial-leading thermal management system and heat dissipation structure.

Both 3W version and 5W version are available for this laser model. The typical repetition range is 30kHz to 150kHz. The pulse energy can be beyond 100µJ. The short pulse width (<15ns@50k), the excellent beam quality (M²<1.2), and the great beam roundness (> 90%) enable this laser model a perfect candidate for various application areas, including consumer electronics material surface engraving, on-fly marking, glass internal writing, 3D printing and so on.



Package marking



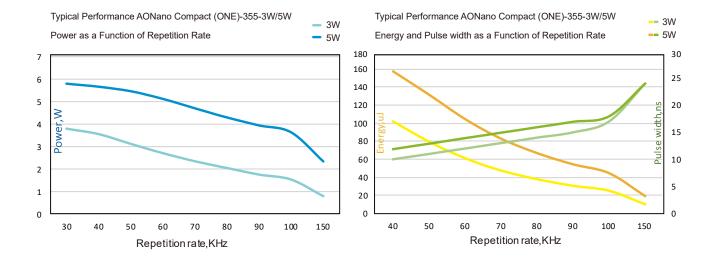
3C marking



FPC/PCB marking



3D printing

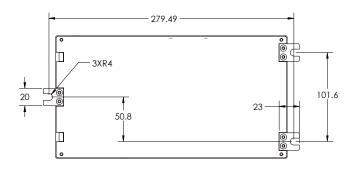


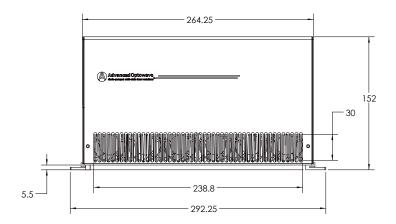
	AONano Compact (ONE) 355			
Specification	3W-50K	5W-50K		
Wavelength (nm)		355		
Average Power (Watts)	>3W@50KHz	>5W@50KHz		
Energy (μJ)	>100	>166		
Specified Repetition Rate(kHz)	50			
Repetition Rate (kHz)	30 ~ 150			
Pulse Width (ns)	<15			
Beam Quality (M²)	< 1.2			
Beam Roundness (%)	> 90			
Beam 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(% over12 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			
Laser head (kg)	5.24			

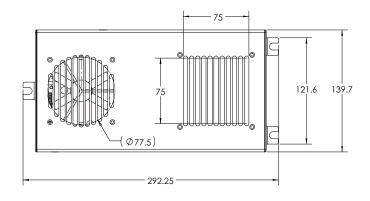


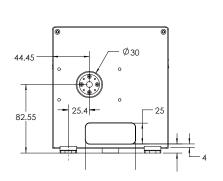
## AONano Compact (ONE) SERIES (air cooling)

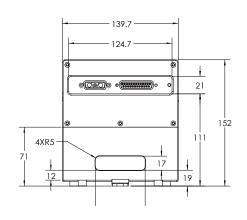
AONano Compact (ONE) -355 (air cooling) Laser Size











### AONano Compact (ONE) Series Water-Cooled

#### Industrial UV nanosecond laser



### ► Features & Benefits:

This is the upgraded version of our water-cooled 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 newly added one-button start feature significantly reduces the operational procedure of the customer and consequently improves the user experience.

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 3W, 5W and 10W are available in the repetition range from 30 kHz to 150 kHz. The maximum pulse energy reaches 200  $\mu J$ . It is the perfect candidate for various application areas, including consumer electronics material surface engraving, on-fly marking, glass engraving, 3D printing and so on.



Package marking



3C marking



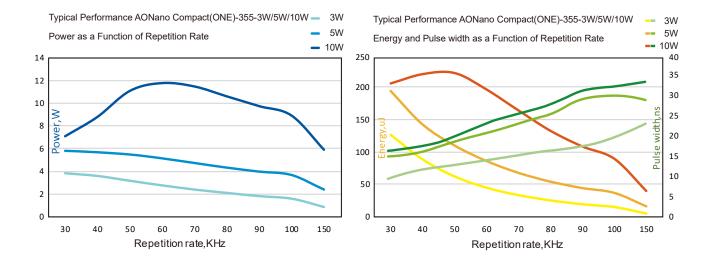
FPC/PCB marking



3D printing







	AONano Compact (ONE) 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 (M²)	< 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 (ONE) SERIES (water cooling)

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

