

AONano XP Series

Industrial Green nanosecond laser

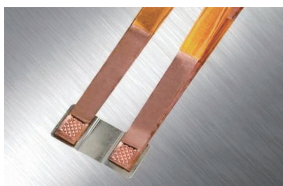
- < High frequency
- < Narrow pulse width of ~2ns available
- < All-in-one design
- < Perfect combination of performance and stability



► Features & Benefits:

Elevate your experience with our AONano XP series, offering customers the freedom to customize pulse widths from 1ns to 100ns. The frequency ranges from 10kHz to 5MHz.

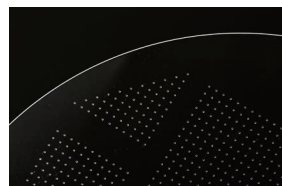
This flexibility in the 532nm wavelength opens up a world of possibilities for applications such as precision marking. The all-in-one design prioritizes compactness and ease of installation, providing a tailored solution for your specific requirements.



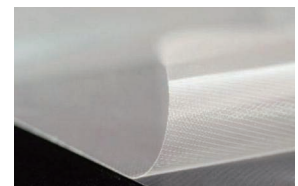
Battery electrode welding



Perc solar cell grooving

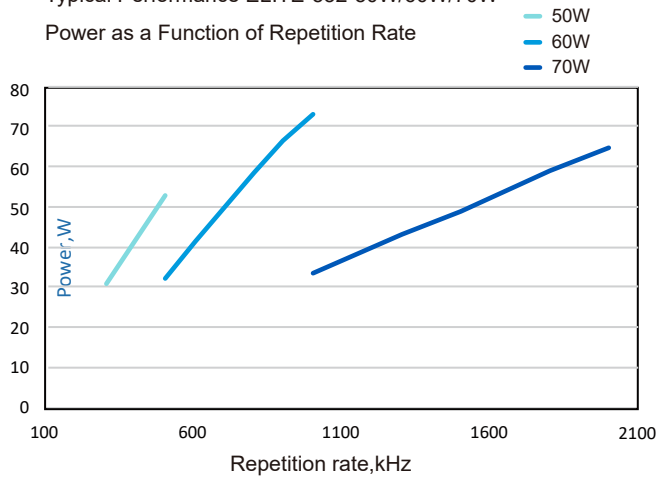


Glass drilling

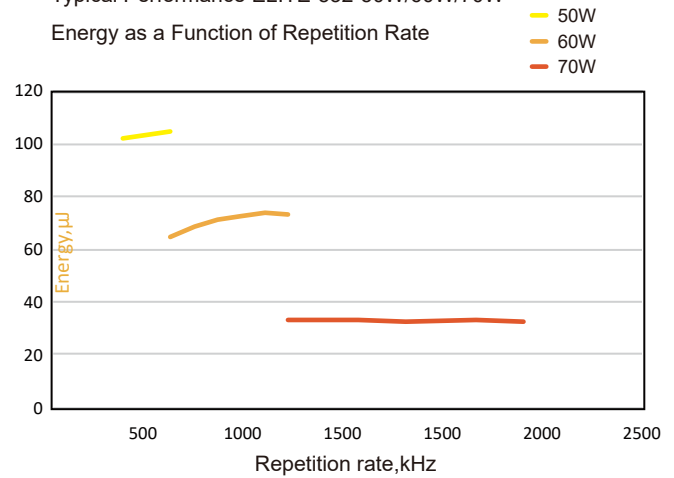


ITO etching

Typical Performance ELITE-532-50W/60W/70W
Power as a Function of Repetition Rate



Typical Performance ELITE-532-50W/60W/70W
Energy as a Function of Repetition Rate



AONano XP 532

Specification	50W-500K	60W-2000K	70W-1000K
Wavelength (nm)	532		
Average Power (Watts)	>50W@500KHz	60W@2000KHz	70W@1000KHz
Energy (μJ)	>100	>30	>70
Specified Repetition Rate(kHz)	500	2000	1000
Repetition Rate (kHz)	100-500	100~2000	100~1000
Pulse Width (ns)	20~40 customizable	~3	
Beam Quality (M ²)	<1.2		
Beam Roundness (%)	>90		
Beam Diameter (mm)		~2.5	
Beam Divergence (mRad)	< 1		
Point Stability (μrad/°C)	< 20		
Polarization Ratio	100:1 Linear,Vertical		
Pulse-to-Pulse Stability (% RMS)	< 3		
Average Power Stability(% over12 hours)	< 3		
Cold Start Warm-Up (mins.)	< 30		
Standby Warm-Up (mins.)	<10		
Operational Temperature Range (°C)	15 to 35		
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		
Communication	RS232		
Cooling	Water		
Laser head (kg)	20		

AONano XP SERIES

AONano XP - 532 Laser CAD Drawing

