

AONano XP Series

Industrial UV nanosecond laser

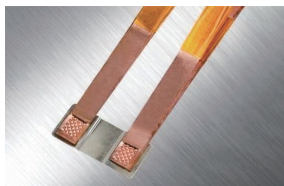
- < Short pulse width of ~2ns
- < High repetition rate up to 2MHz
- < Excellent beam quality
- < Adaptable for some special application requirements



► Features & Benefits:

Unleash the power of UV light with an impressive output power of up to 30W@2MHz. The AONano XP UV laser ensures high-performance results for a variety of applications.

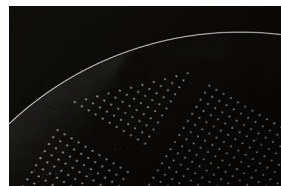
The all-in-one design not only reduces the laser's footprint and weight but also streamlines installation, making it an ideal choice for diverse environments.



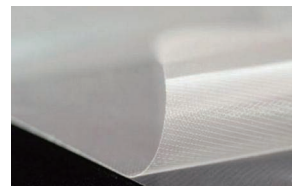
Battery electrode welding



Perc solar cell grooving

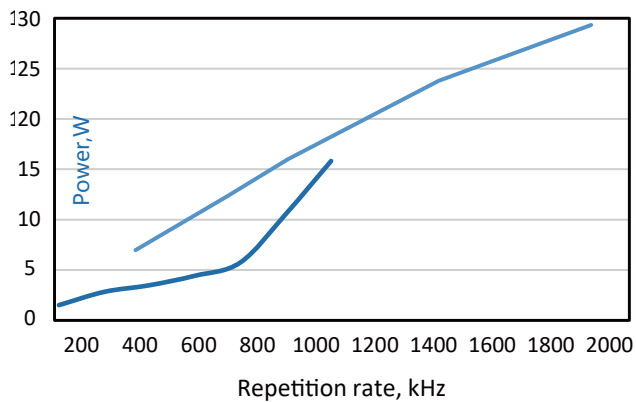


Glass drilling

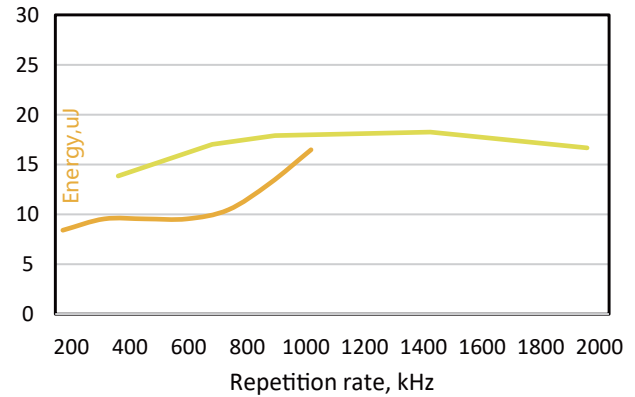


ITO etching

Typical performance AONano XP-355-15/30W
Power as a function of Repetition rate



Typical performance AONano XP-355-15/30W
Energy as a function of Repetition rate



AONano XP 355		
Specifications	15W-1000K	30W-2000K
Wavelength (nm)	355	
Avg. Power (Watts)	> 15W @ 1000KHz	> 30W @ 2000KHz
Pulse Energy (μJ)	> 15	> 15
Pulse Width (ns)	< 3	
Operating Rep. Rate Range (kHz)	100~1000	100~2000
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, Horizontal	
Pulse-to-Pulse Stability (% RMS)	< 3	
Average Power Stability(% over 12 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)	32	

AONano XP SERIES

AONano XP - 355 Laser CAD Drawing

