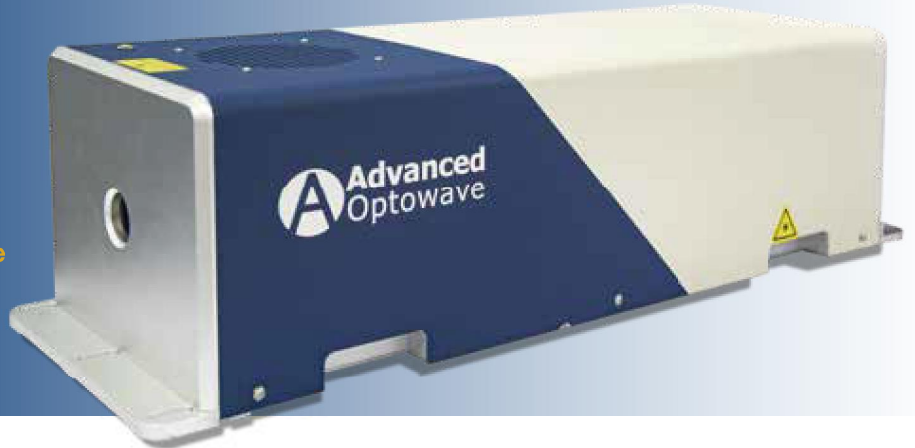


# AONano XP Series

Industrial Green nanosecond laser

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



## ► Features & Benefits:

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 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 30W, 40W, and up to 60W are available for selection. With the pulse width of ~2 ns, high repetition rate up to 2 MHz, it is the perfect candidate for various application areas, including solar cell processing, battery electrodes welding, glass drilling, and so on.



Battery electrode welding



Perc solar cell drilling



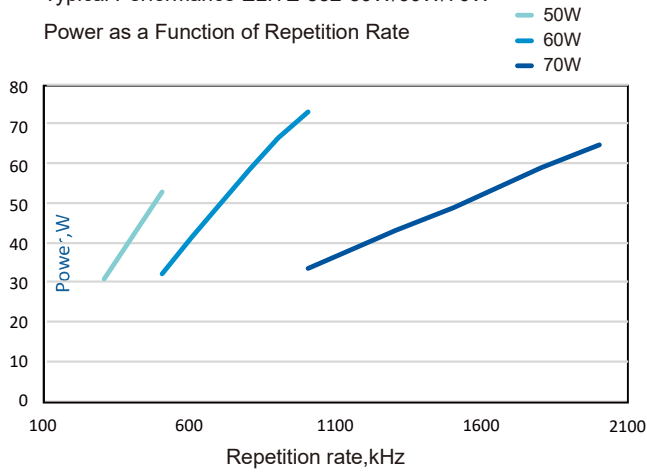
Glass drilling



ITO etching

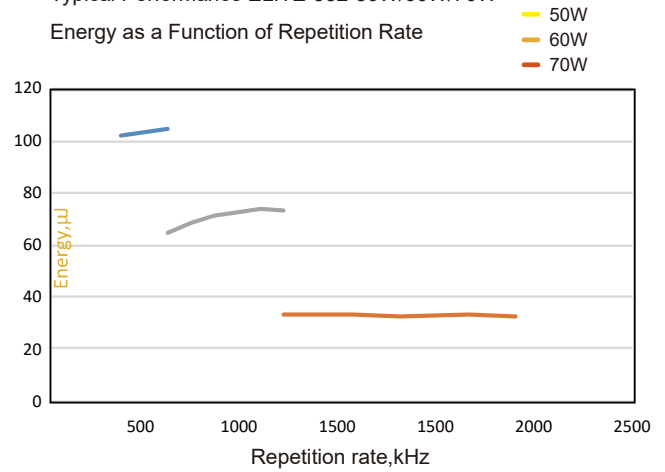
Typical Performance ELITE-532-50W/60W/70W

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 (M²)	<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 Size

