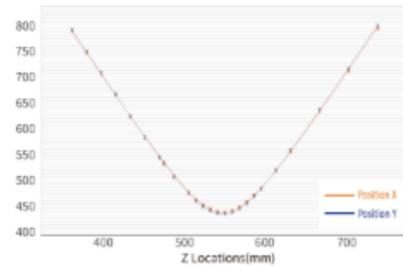


Nanosecond Laser

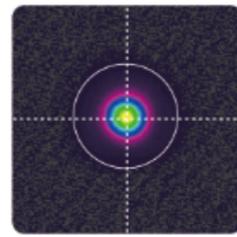
- **Design:** Highly integrated, compact form factor for easy system integration
- **Performance:** Higher power, greater pulse energy, superior stability
- **Beam Quality:** $M^2 < 1.3$
- **Control:** RS232, GATE, TRIG control + PSO functionality
- **Maintainability:** Modular design, stable structure, easy maintenance



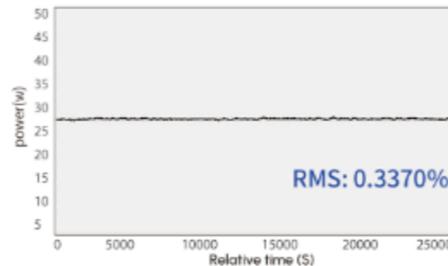
PRODUCT ADVANTAGES



Beam Quality: Consistent power output maintained across the entire propagation range, ensuring processing uniformity.

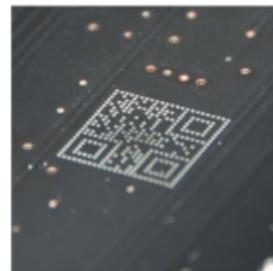


Beam Profile: Near-diffraction-limited circular spot with excellent symmetry for high-precision applications.



Power Stability: Exceptional long-term stability with an RMS fluctuation of 0.3370% over a 25,000-second continuous test.

APPLICATION AREA



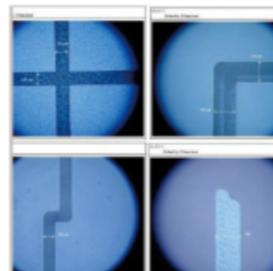
Laser Marking

High precision, low thermal damage, eco-friendly



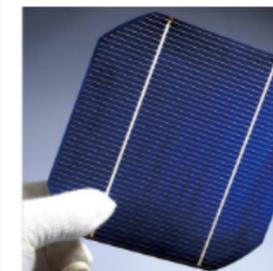
Glass Atomization

Non-contact etching, scalable production, clean processing



ITO Film Etching

Uniform etching, low stress, stable & cost-effective



Solar Wafer Cutting

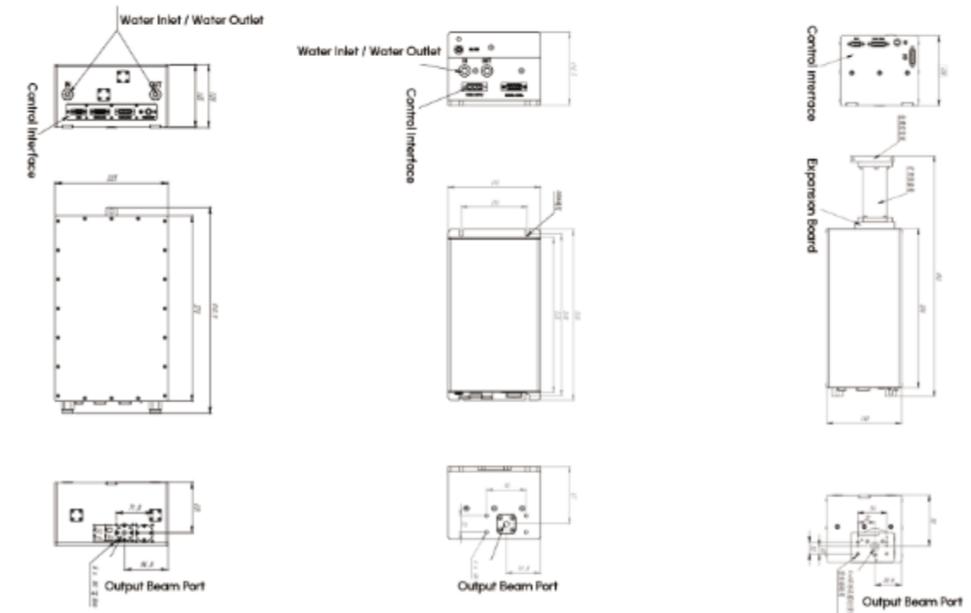
Fast grooving, high efficiency, improved cell performance

TECHNICAL INDICATORS

Parameter	IR Nanosecond Laser	Green Nanosecond Laser		UV Nanosecond Laser		
	NSIR-50W	NSGR-60	NSGR-40	NSUV-25	NSUV-20	NSUV-5
Wavelength	1064nm	532nm		355nm		
Repetition rate	100-200 KHz	50-200 KHz	40-200 KHz	50-150 KHz		30-120 KHz
Pulse width	<13ns@100k	<30ns@50k		<20ns@50k		<15ns@50k
Average power	≥50W@100k	≥60W@50k	≥40W@40k	≥25W@50k	≥20W@50k	≥5W@50k
Beam quality (M ²)	≥0.5mJ	≥1.2mJ	≥1mJ	≥500μJ	≥400μJ	≥100μJ
Polarization extinction ratio	M ² <1.3	M ² <1.2				
Output beam diameter	≈2mm	≈1mm				≈0.8mm
Beam divergence	<2 mrad	<1.5 mrad				
Power stability(RMS)	RMS<1.5%					
Cooling method	Purified water cooling					Air-cooled/Water cooling

Note: Custom specifications available upon request, please contact our sales team.

MECHANICAL DRAWING & DIMENSIONS



25 W UV / 40 W Green Laser

5 W UV Laser

5 W Air-Cooled UV Laser