Ham's lase **UV Nanosecond Laser**



HL-NS-355-20-S



With the unique cold processing advantage of UV light, it is widely used for cutting, drilling,

► Application

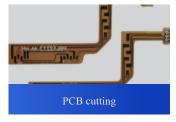
- Modular design for easy upgrade and maintenance
- TEM00 mode output
- Adjustable repetition rate

▶ Features

- PCB/FPC board marking, cutting and drilling
- Solar cell process
- Ink removal, PVD layer removal
- Scribing, cutting and drilling of ceramics
- Wafer scribing

► Sample Display







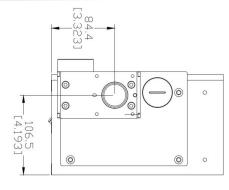


Technical Parameters

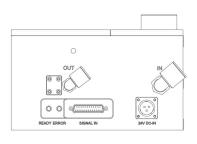
	HL-NS-355-20-S
Optical Parameters	
Wavelength	355 nm
Max. Power	20 W@80 kHz
Repetition Rate	60 kHz~200 kHz
Pulse Width	20 ns-100 ns
Pulse Energy Stability (rms)	< 3% rms@80 kHz
Power Stability	< 2% rms
Beam Characteristics	
Spatial Mode	$\mathrm{TEM}_{\mathrm{oo}}$
Beam Quality	$M^2 < 1.3$
Polarization Ratio	>100:1(horizontal)
Beam Diameter at Exit	$1.4 \text{ mm} \pm 0.2 \text{ mm}$
Divergence Full Angle (1/e²)	<2 mrad
Circularity	> 90%
Beam Pointing Stability	\leq $\pm 25~\mu rad/^{\circ}C$
Working Conditions	
Power Supply	$24VDC \pm 1V$; $\geq 400W$ switching power supply
Warm-up Time	Standby to ready < 10 minutes; cold start to readiness < 30 minutes
Temperature Range	15~30°C during working hours; 0~50°C during non-working hours
Temperature Range	10~70%, non-condensation
Cooling Requirements	Water cooling, cooling capacity ≥ 100 W, accuracy ± 0.1 °C, flow rate ≥ 10 L/min
Physical Properties	
Laser Dimensions	598 mm×230 mm×154.7 mm (L x W x H)
Laser Weight	25 kg

▶ All specifications are typical data and subject to change without notice due to product improvements.

Laser Dimensions (mm)



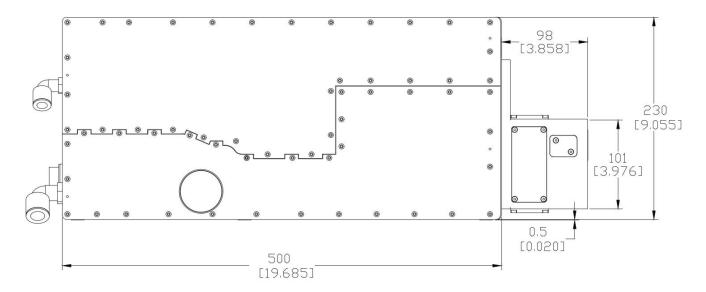
Front View



Back View



Top View



Side View

