

UV Nanosecond Laser

HL SERIES

HL-NS-355-20-S



With the unique 'cold processing advantage' of UV light, it is widely used for cutting, drilling, marking and etching of materials in the high-end market of ultra-fine processing.

► Application

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

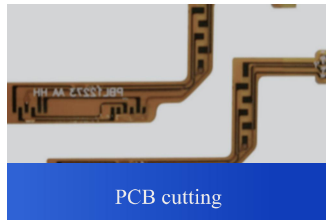
► Features

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

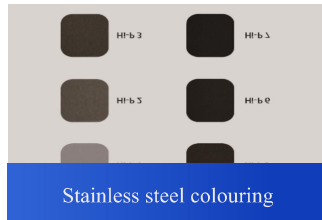
► Sample Display



Fireproof materials



PCB cutting



Stainless steel coloring



3µm micro-drilling
in stainless steel shims

Technical Parameters

HL-NS-355-20-S

Optical Parameters

Wavelength	355 nm
Max. Power	20W@80kHz
Repetition Rate	60kHz~200kHz
Pulse Width	20ns-100ns
Pulse Energy Stability (rms)	<3% rms@80kHz
Power Stability	<2% rms

Beam Characteristics

Spatial Mode	TEM ₀₀
Beam Quality	M ² <1.3
Polarization Ratio	>100:1(horizontal)
Beam Diameter at Exit	1.4mm ± 0.2mm
Divergence Full Angle (1/e ²)	<2 mrad
Circularity	>90%
Beam Pointing Stability	≤±25 μrad/°C

Working Conditions

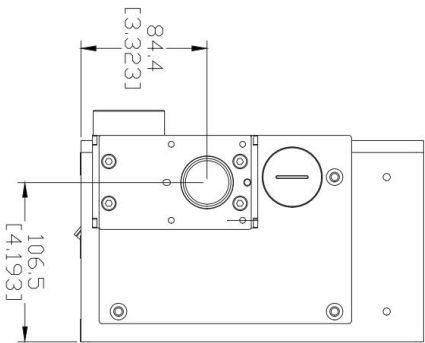
Power Supply	24VDC±1V; ≥400W switching power supply
Warm-up Time	Standby to ready < 10 minutes; cold start to readiness < 30 minutes
Temperature Range	15~30°C during working hours; 0~50°C during non-working hours
Temperature Range	10~70%, non-condensation
Cooling Requirements	Water cooling, cooling capacity≥100W, accuracy±0.1°C, flow rate≥10L/min

Physical Properties

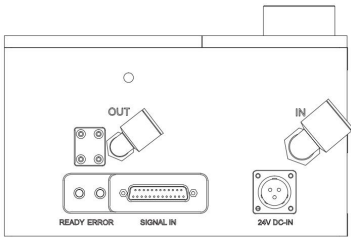
Laser Dimensions	598mm×230mm×154.7mm (L x W x H)
Laser Weight	25 kg

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

Laser Dimensions (mm)

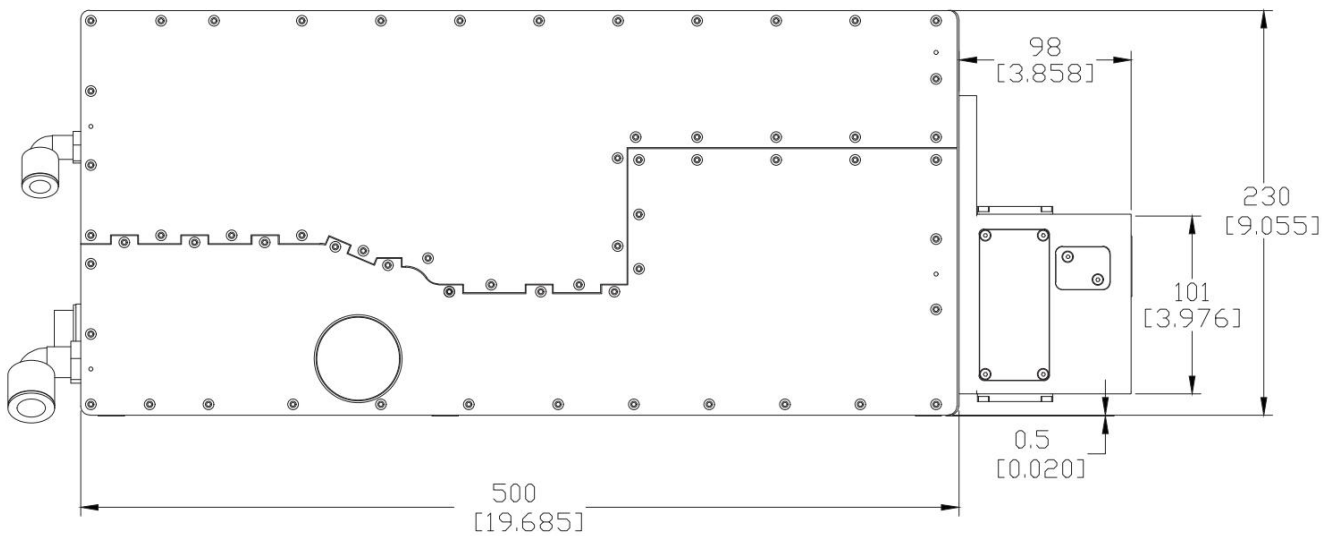


Front View



Back View

Top View



Side View

