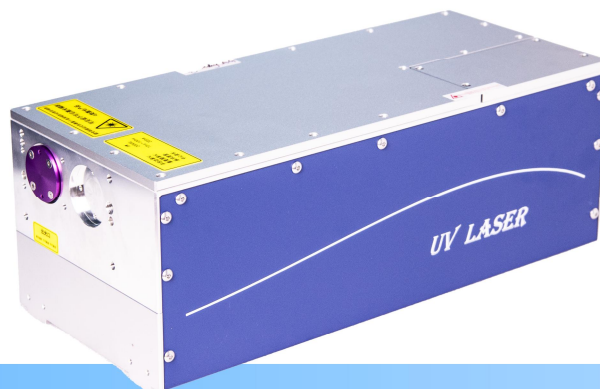


UV Nanosecond Laser

ZG SERIES

ZG-NS-355-5



The new ZG series adopts intra-cavity frequency doubling technology for applications in precision marking processes. With its superb cost performance, it is widely used in the extreme manufacturing field.

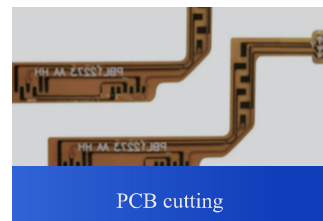
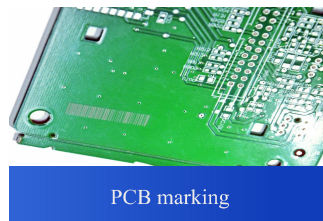
► Application

- Small size, light weight and price-competitive
- Opto-mechanical integration design
- EM₀₀ mode output
- Adjustable repetition rate

► Features

- High-end electronic products appearance logo
- PCB, EPC QR code marking
- Metal or non-metal plating removal
- Marking of air switches, low-voltage appliances (flame retardant materials)
- Food, PVC pipe, pharmaceutical packaging, cable wire (HDPE, PO, PP, etc.) material marking

► Sample Display



Technical Parameters

ZG-NS-355-5

Optical Parameters

Wavelength	355 nm
Max. Power	5W@30kHz
Repetition Rate	20kHz~200kHz
Pulse Width	20ns-100ns
Pulse Energy Stability (rms)	< 3% rms
Power Stability	< 2% rms

Beam Characteristics

Spatial Mode	TEM ₀₀
Beam Quality	M ² < 1.2
Polarization Ratio	> 100:1(horizontal)
Beam Diameter	1.1mm ± 0.2mm
Divergence Full Angle (1/e ²)	< 2 mrad
Circularity	> 90%
Beam Pointing Stability	≤ ±25 μrad/°C

Working Conditions

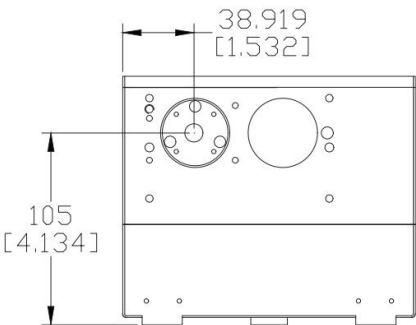
Power Supply	12VDC±1V; ≥200W switching power supply
Warm-up Time	Standby to ready < 10 minutes; cold start to readiness < 30 minutes
Temperature Range	15~30°C during working hours; 0~50°C during non-working hours
Temperature Range	10~70%, non-condensation
Cooling Requirements	Water cooling, cooling capacity ≥ 200W, accuracy ± 0.5°C, flow rate ≥ 4L/min*

Physical Properties

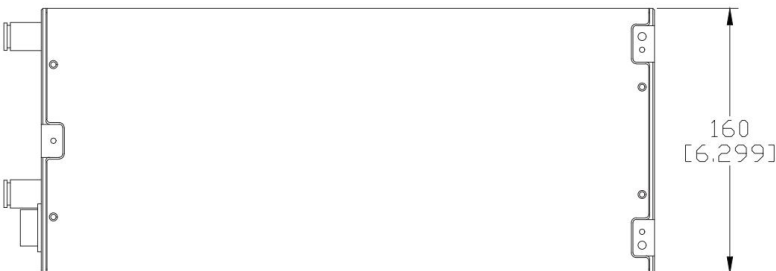
Laser Dimensions	369.5mm×160mm×136mm (L x W x H)
Laser Weight	11kg

- ▶ All specifications are typical data and subject to change without notice due to product improvements.
- ▶ *Recommended Chiller→Brand: HANSUN, Cool Model: HC002M1-02A.

Laser Dimensions (mm)

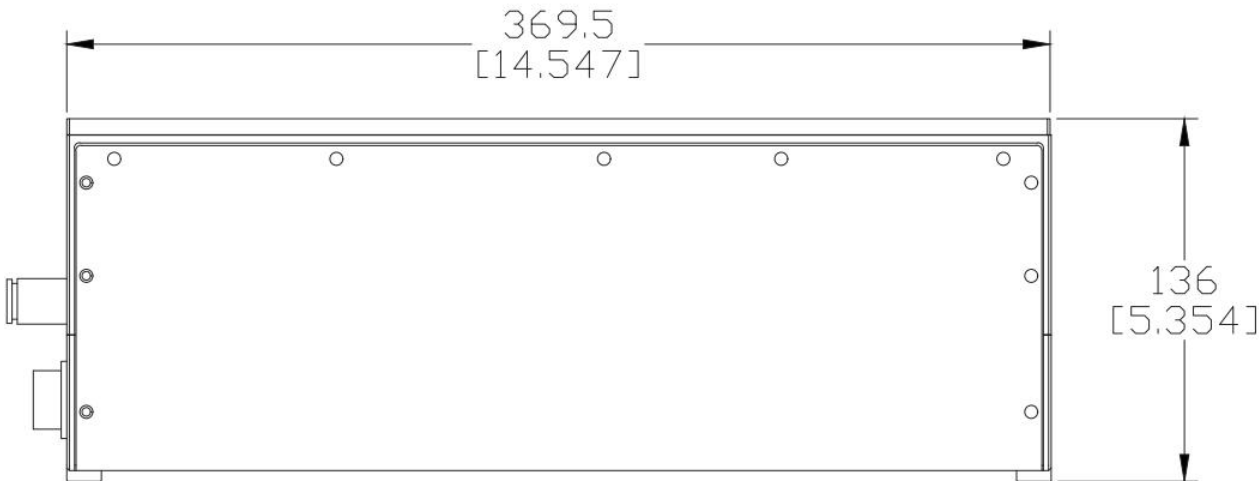


Front View



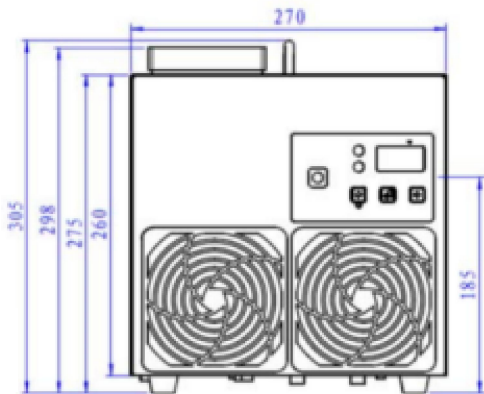
Top View

Side View

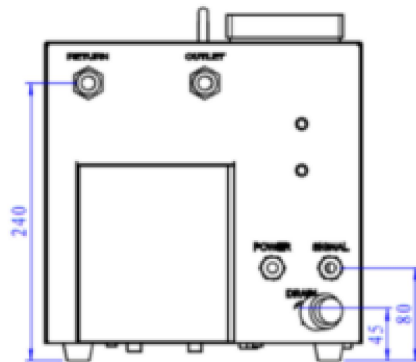


Water Chiller Dimensions (mm)

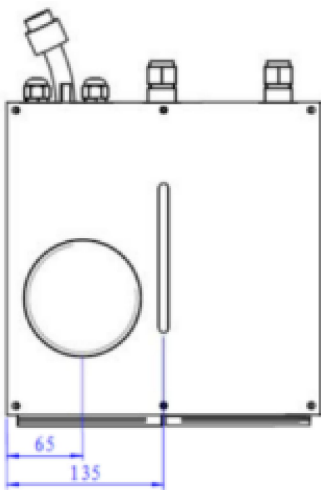
HC010H1-02A
270mm x 315mm x 305mm (L x W x H)



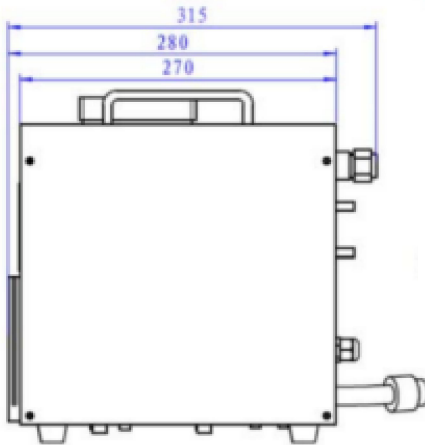
Front View



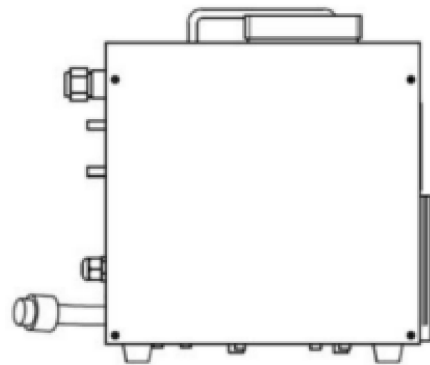
Back View



Top View



Side View



Side View