

HP102 UV DPSS Laser

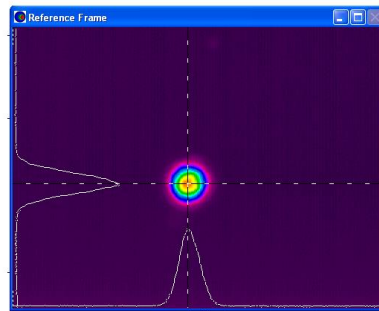
The HP series UV DPSS lasers employ advanced resonant cavity design and laser control technology to deliver excellent beam quality and narrow pulse widths at high power settings. Special thermal compensation and frequency conversions technologies enable these machines to perform stable and efficient harmonic conversion.

Features:

- Average power 10W@40kHz
- TEM₀₀, ($M^2 < 1.3$)
- Adjustable pulse repetition rate of 40-100kHz
- Burst Mode available (single shot up to 150kHz)
- Controlled via RS232 interface and GATE, TRIGGER, and PWM signals
- Long-run working stability
- Small size and compact design
- Assembled in class 1000 cleanroom

Applications:

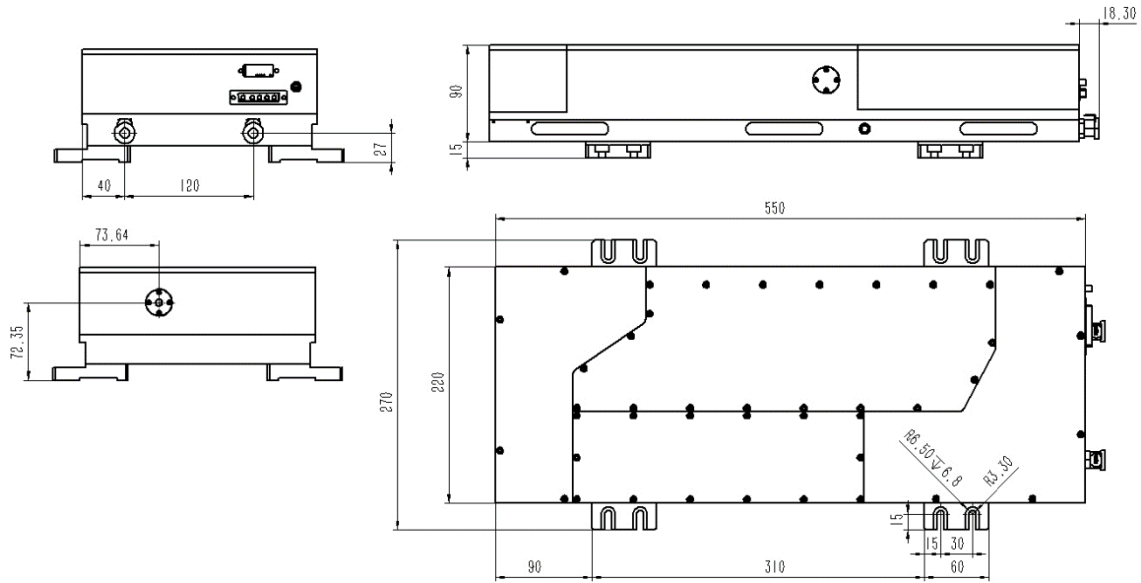
- ◆ Glass cutting
- ◆ Laser marking
- ◆ Material micromachining
- ◆ Wafer cutting
- ◆ Micro-drilling
- ◆ Laser rapid prototyping
- ◆ Scientific research



Specifications:

Model	HP102
Wavelength(nm)	355
Pulse repetition rate(kHz) :	40-100 (up to 150kHz)
Pulse Width (ns) :	<20@40kHz
Average Power(W) :	10.0@40kHz
Average Power Stability :	<±3% over 8hours rms
Pulse-to-Pulse instability:	<3% rms
Spatial Mode:	TEM ₀₀ (M ² <1.3)
Beam Divergence :	< 2 mrad(Full Angle)
1/e ² Beam Diameter :	1.2±0.1mm
Beam Roundness:	>90%
Pointing stability:	<50urad
Polarization Direction	Horizontal
Polarization Ratio	100 : 1
Cooling	Water-cooling
Ambient Temperature(°C)	15-30
Storage Temperature(°C)	-10-50
Warm-up Time(mins)	<10
Operating Voltage(V)	90-260

HP102 Laser Head External Dimensions:



HP102 Controller External Dimensions:

