AdValue Photonics
Innovative & Reliable

Picosecond UV Laser (EVERESTpico)

AP-355P

Applications:

- Semiconductor applications
- Medical applications
- Glass / ceramic cutting and drilling
- Precision micromachining of materials
- Scientific research

Features:

- High reliability laser architecture
- Rugged industrial design
- Flexible burst pulse control
- Pulse-on-demand operation
- Real-time monitoring and data logging

Optical Characteristics:

Parameter	Specification
Wavelength	355 nm
Average Output Power	30 W (10~80W possible)
Pulse Repetition Rate	600 kHz (1Hz~2MHz possible)
Pulse Duration	< 15 ps
Pulse Energy	50 uJ (Max. 100uJ)
Pulse Format	Burst Mode Option
Beam Quality	M^2 < 1.3
Beam Diameter	1~3 mm
Beam Divergence	< 2 mrad full angle
Beam Circularity	> 90%
Polarization	Linear, Horizontal
PER	> 20dB
Power Stability	< 3%, RMS over 8 hours
Pulse-to-Pulse Stability	< 3%, RMS over 10 minutes
Beam Pointing Stability	< 50 μrad/°C
Warm-up time	> 50 minutes

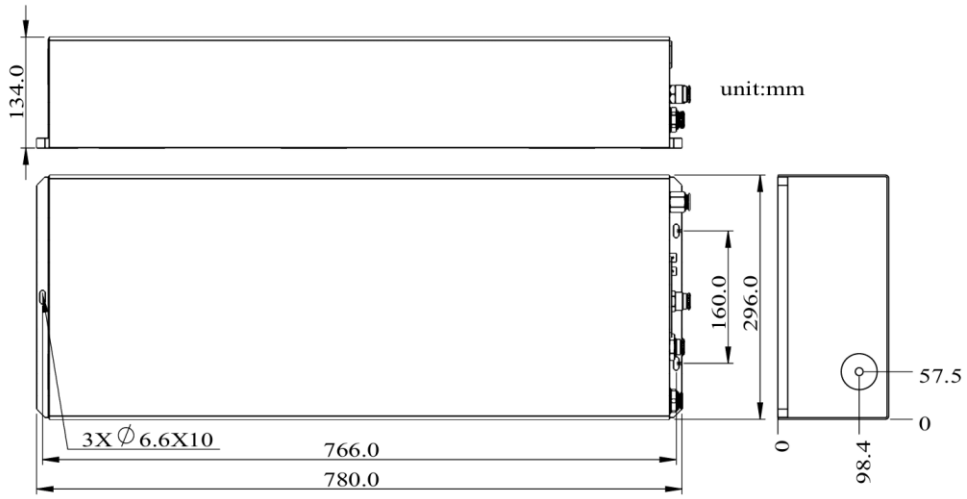
(For special requirement, please contact AdValue Photonics for options.)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Electrical Interfaces	Ethernet, Gate, Trigger
Power Supply	90 ~ 260 VAC
Cooling Method	Water
Operating Temperature	15 ~ 35 °C
Relative Humidity	10 ~ 80% (non-condensing)
Laser Head Dimension	780 x 296 x 134 mm^3
Laser Head Weight	47 kg
Controller Dimension	343 x 327 x 62 mm^3
Controller Weight	2 kg
Chiller Power	> 1500 W at 20 °C

Mechanical Outline:



Ordering Information:

AP-P-	-	xxxx	-	xxxx or xx	-	xx	-	xxx	-	xx
		Standard Wavelength: 355 = 355 nm		Pulse Energy: 050 = 50 µJ 100 = 100 µJ		Average Power: 30 = 30W		Pulse Rep Rate: 600 = 600 kHz		Polarization: LP = linear polarization

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