

EVEREST[™]*pico* 1 μ m Picosecond Fiber Laser AP-1030P

Applications:

- Laser cutting, drilling and scribing (glass, sapphire, silicon, silicon carbide, ceramics, nitinol stents, CFRP, PCD and CVD diamond)
- Laser thin film patterning (TCO, metal, thin film solar cells)
- 2.5D surface shaping (metals, ceramics, plastics)
- Laser marking (glass, sapphire, silicon carbide, silicon, metals, plastics)

Features:

- Picosecond pulses
- High pulse energy and peak power
- High repetition rate capability
- Near diffraction limited beam quality
- Rugged OEM package and compact size



Optical Characteristics:

Parameter	Specification	
Operation mode	Pulsed	
Operating wavelength	1030 nm	
Pulse width	15 ps	50 ps
Average power	15 W, 30 W, 60 W, 100 W	
Pulse repetition rate	20 kHz to 3 MHz	
Pulse energy	10 μ J, 20 μ J	10 μ J, 20 μ J, 30 μ J
Beam quality, M ²	< 1.3	
Output power stability	Within \pm 5%	
Output delivery	Collimated output beam	

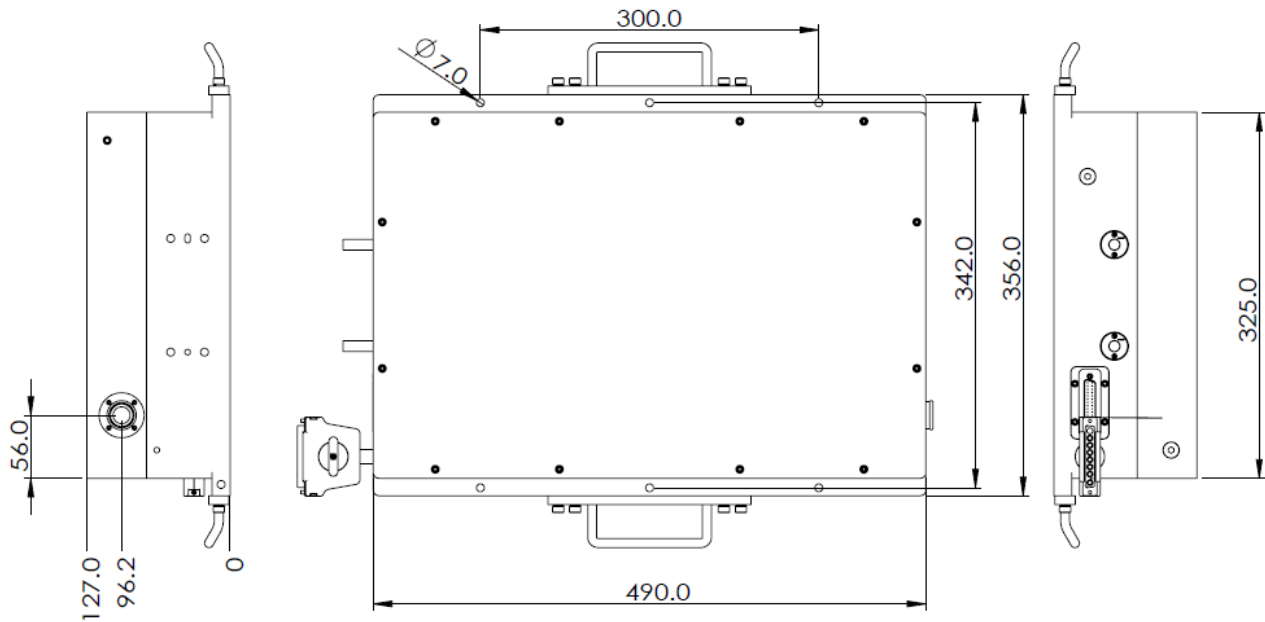
(For custom requirements, please contact AdValue Photonics)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	10 to +30 °C
Storage temperature	+5 to +70 °C
Cooling	Water cooled (portable recirculating chiller available as an option)
Power requirement	AC 100~240 V (50/60Hz) (operating with AdValue Photonics Control Unit)
Warm-up time	10 minutes
Package dimensions	356(W) x 490(D) x 127(H) mm

Mechanical Outline:



Ordering Information:

Part Number:	AP	-	1030P	-	xx	-	xx	-	xxx
	Standard Wavelength:		Pulse width:		Output Power:		Pulse Energy:		
	1030 = 1030 nm		15 = 15 ps		10 = 10 W		010 = 10 μJ		
			xx = xx ps		xx = xx W		xxx = xxx μJ		

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