

# Femtosecond Laser (EVERESTfemto)

## AP-1030F

### Applications:

- Medical devices
- Display Panel, AR/VR
- Aerospace
- Scientific research
- Brittle material processing



### Features:

- High Reliability laser architecture
- Rugged Industrial design
- Flexible burst pulse control
- Pulse-on-demand operation
- Real-time monitoring and data logging
- Ethernet connectivity with remote diagnostics

### Optical Characteristics:

Parameter	Specification
Wavelength	1030nm
Average Output Power	30 W (10~80W possible)
Pulse Repetition Rate	500 kHz (1Hz~2MHz possible)
Pulse Duration	< 500 fs
Pulse Energy	60 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, Vertical
PER	> 20dB
Power Stability	< 3%, RMS over 8 hours
Pulse-to-Pulse Stability	< 3%, RMS over 10 minutes
Beam Pointing Stability	< 50 $\mu$ rad/°C

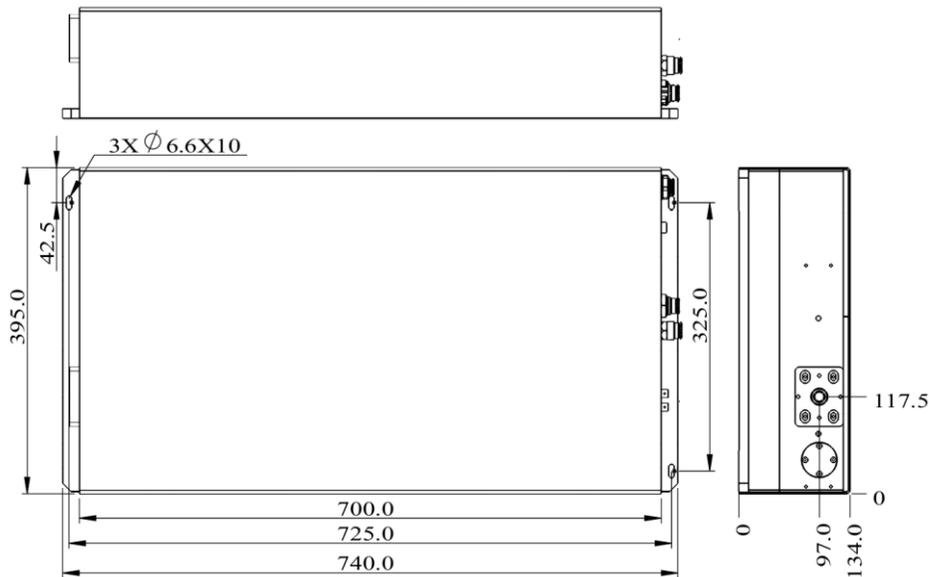
(For special requirement, please contact AdValue Photonics for options.)

*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	740 x 395 x 134 mm <sup>3</sup>
Laser Head Weight	47 kg
Controller Dimension	230 x 343 x 72 mm <sup>3</sup>
Controller Weight	4 kg
Chiller Power	> 1500 W at 20 °C

## Mechanical Outline:



## Ordering Information:

AP-P-	-	xxxx	-	xxxx or xx	-	xx	-	xxx	-	xx
		Standard Wavelength: 1030 = 1.03 μ		Pulse Energy: 060 = 60 μJ 100 = 100 μJ		Average Power: 30 = 30W		Pulse Rep Rate: 500 = 500 kHz 2000 = 2MHz		Polarization: LP = linear polarization



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