

Pulsed Single-Frequency Fiber Laser

AP-P-SF

(Wavelength: 1 μm , 1.55 μm , 2 μm)

The pulsed single-Frequency fiber lasers are designed to provide the highest pulse energy in a single longitudinal mode. This series of products at 2 μm , 1.55 μm , and 1 μm provide new capabilities to research and industry applications.

With their compact size, high efficiency, low maintenance, and ease of operation, AdValue Photonics' fiber lasers provide many advantages over traditional bulk solid state lasers.

Applications:

- LIDAR
- Frequency conversion
- Mid-IR generation
- Spectroscopy

Features:

- Single longitudinal mode
- High pulse energy
- Customizable operating wavelength
- Nanosecond pulses
- Near diffraction limited beam quality
- Turn-key system with no maintenance required



Optical Characteristics:

Parameter	Specification		
	AP-P-SF-1950	AP-P-SF-1550	AP-P-SF-1060
Operation mode	Pulsed		
Spectral linewidth	Single Frequency (single longitudinal mode)		
Typical operating wavelength	1.03, 1.06 μm	1.55 μm	1.95 μm
Customizable wavelength	-	-	1.9 ~ 2.1 μm
Pulse energy	Up to 1 mJ		
Pulse width	100-300 ns (non-adjustable, factory selectable)		
Pulse repetition rate	10-200 kHz (non-adjustable, factory selectable)		
Max. average power	10 W (higher or lower power available)		
Beam quality, M^2	< 1.3		
Output polarization	Random (option: linear polarization)		
Output delivery	Free-space collimated beam ~ 1 mm diameter (beam expansion available)		

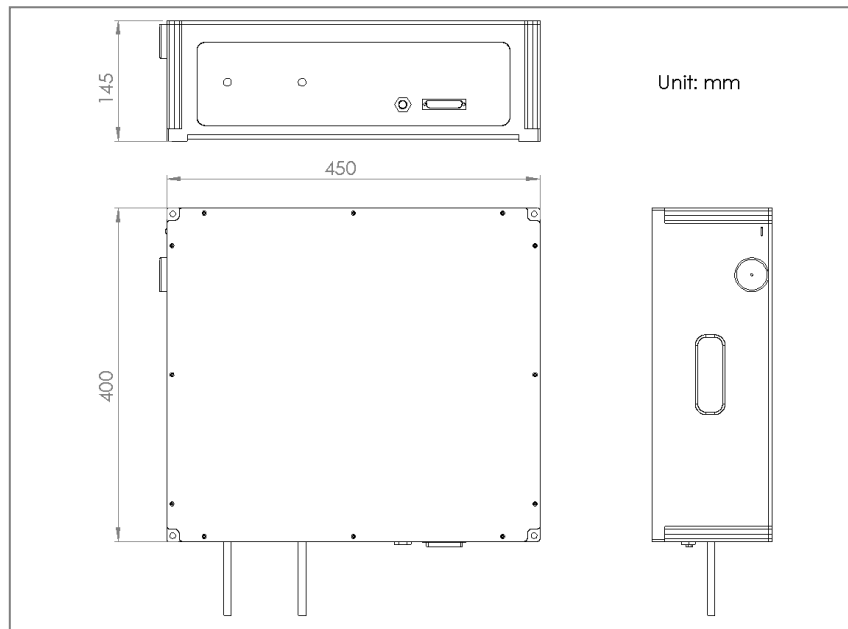
(For special requirement, please contact AdValue Photonics for options.)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	10 to +30 °C
Storage temperature	-10 to +70 °C
Cooling	Water cooled
Power requirement	AC 100~240 V (50/60Hz)
Warm-up time	10 minutes
Package dimensions	450(W) x 400(D) x 145(H) (optical module only, not including a separate control unit)

Mechanical Outline:



Ordering Information:

AP-P-SF	-	xxxx	-	xxxx	-	xxx	-	xxx	-	xx
Standard Wavelength:				Pulse Energy:		Pulse Width:		Pulse Rep Rate:		Polarization:
1950 = 1.95 μm				m500 = 0.5 mJ		100 = 100 ns		010 = 10 kHz		RP = random polarization
1550 = 1.55 μm				01 = 1 mJ		300 = 300 ns		050 = 50 kHz		LP = linear polarization
1060 = 1.06 μm								100 = 100 kHz		
1030 = 1.03 μm										



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