



FS-H-780/1-50mW

FEMTOSECOND PULSED LASER AT 780nm

All Fiber Femtosecond pulsed laser at 780nm is made features of short pulse duration, high repetition rate, high stability and good beam quality, which is used in optical microscope, photon imaging, physics experiment, etc.

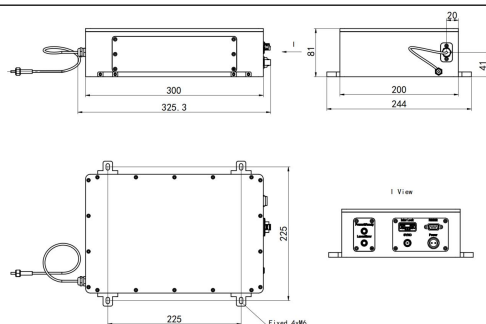


SPECIFICATIONS

Wavelength (nm)	780±15
Average power (mW)	50mW (50mW@80MHz)
Single pulse energy (nJ)	0.6(0.6nJ @80MHz)
Rep. rate (MHz)	80±2MHz
Pulse duration (fs)	<100fs @80MHz,50mW.
Peak power (kW)	6kW @80MHz
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM ₀₀
Beam quality(M ²)	<1.2
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/e ² ,mm)	<2
Polarization ratio	>100:1
Beam height from base plate (mm)	28
Cooled method	Air cooled
Operating temperature (°C)	15~35
Power supply (220/110VAC)	On request
Expected lifetime (hours)	10000
Warranty period	1 year

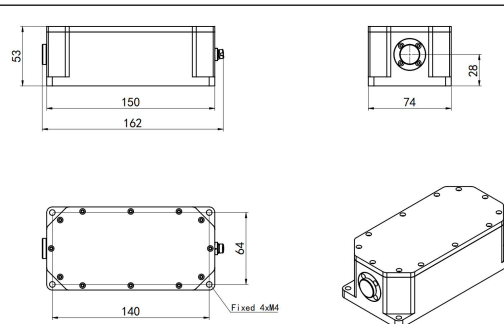


FS-H-780-Basic-frequency-mode



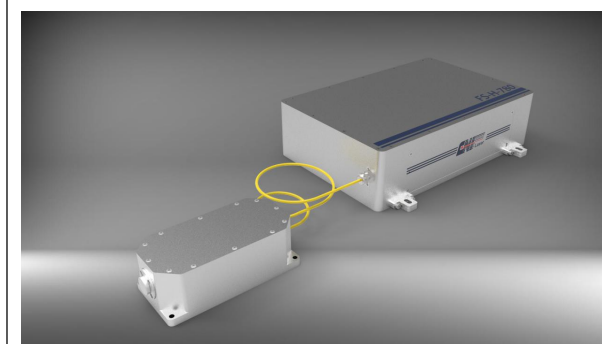
300(L) × 200(W) × 81(H) mm³, 6kg

FS-H-780-frequency-doubling-mode



150(L) × 74(W) × 53(H) mm³, 1kg

Connection schematic diagram





FS-H-780/200mW-800mW

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Note:

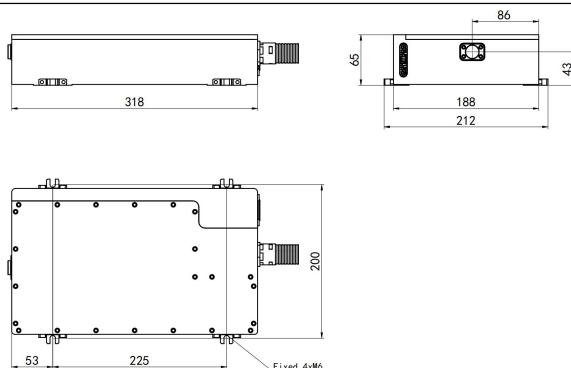
1. Integrated AOM for fine power control and fast power modulation, and the power loss is 15%.
2. The repetition rate can be customized.
3. Assumes sech² deconvolution factor.
4. It can be controlled by computer.

SPECIFICATIONS

Wavelength (nm)	780±15
Average power ¹ (mW)	800mW (800mW@80MHz)
Single pulse energy (nJ)	>10(>10nJ @80MHz)
Rep. rate ² (MHz)	80 ± 2MHz
Pulse duration ³ (fs)	<250fs @80MHz,800mW.
Group Delay Dispersion ⁴ (fs ²)	0 to -30000fs ²
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM ₀₀
Beam quality(M ²)	<1.2
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/e ² ,mm)	<2
Polarization ratio	>100:1
Beam height from base plate (mm)	43
Cooled method	Air cooled
Operating temperature (°C)	15~35
Power supply (220/110VAC)	On request
Expected lifetime (hours)	10000
Warranty period	1 year

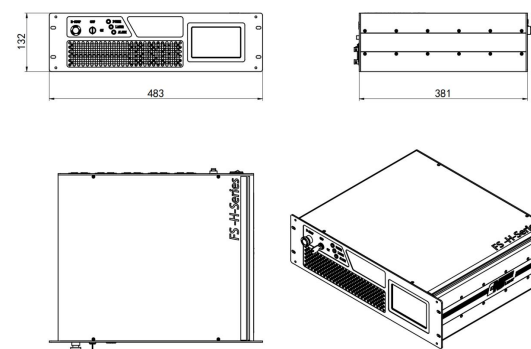


FS-H-780-800mW



318(L) × 188(W) × 65(H) mm³, 15 kg

Power supply



483 (L) × 381(W) × 132(H) mm³, 18 kg