

FS-H-1030/1-500mW

**FEMTOSECOND PULSED  
LASER AT 1030nm**

All Fiber Femtosecond pulsed laser at 1030nm 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.

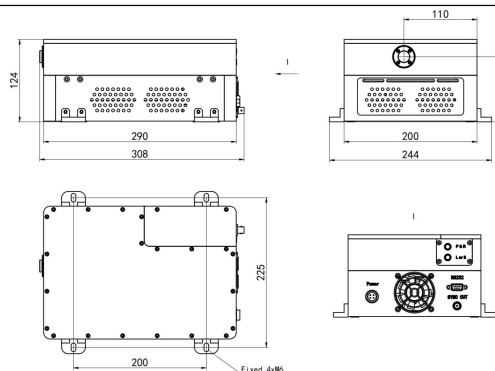


SPECIFICATIONS

Wavelength (nm)	1030±10
Average power (mW)	500mW (500mW@80MHz)
Single pulse energy (nJ)	6.25(6.25nJ @80MHz)
Rep. rate (MHz)	80±2MHz
Pulse duration (fs)	<150fs @80MHz,500mW.
Peak power (kW)	41.7kW @80MHz
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM <sub>00</sub>
Beam quality(M <sup>2</sup> )	<1.2
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	<2
Polarization ratio	>100:1
Beam height from base plate (mm)	98
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-1030-500mW



290(L) × 200(W) × 124(H) mm<sup>3</sup>, 15 kg

FS-H-1030/500mW-3W

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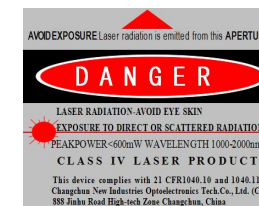


**Note:**

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 sech<sup>2</sup> deconvolution factor.**
4. **It can be controlled by computer.**

**SPECIFICATIONS**

Wavelength (nm)	1030±10
Average power <sup>1</sup> (W)	3W (3W@80MHz)
Single pulse energy (nJ)	>30(>30nJ @80MHz)
Rep. rate <sup>2</sup> (MHz)	80 ± 2MHz
Pulse duration <sup>3</sup> (fs)	<150fs @80MHz,3W.
Group Delay Dispersion <sup>4</sup> (fs <sup>2</sup> )	0 to -60000fs <sup>2</sup>
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM <sub>00</sub>
Beam quality(M <sup>2</sup> )	<1.2
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/ε <sup>2</sup> ,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-1030-3W	Power supply
<p>318(L) × 188(W) × 65(H) mm<sup>3</sup>, 15 kg</p>	<p>483 (L) × 381(W) × 132(H) mm<sup>3</sup>, 18 kg</p>

FS-H-1030/3W-20W

**FEMTOSECOND PULSED LASER AT 1030nm**

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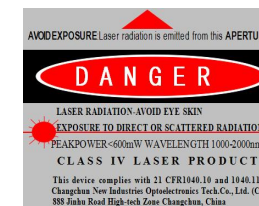


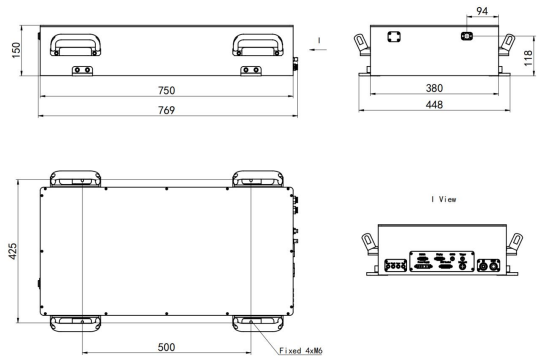
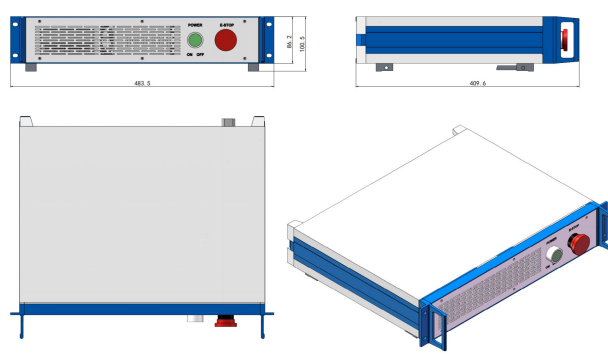
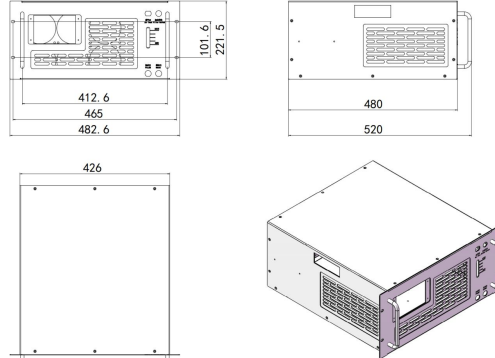
Note:

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 sech<sup>2</sup> deconvolution factor.
4. It can be controlled by computer.

SPECIFICATIONS

Wavelength (nm)	1030±10
Average power <sup>1</sup> (W)	20W (20W@40MHz/80MHz)
Single pulse energy (nJ)	>500(>500nJ @40MHz;>250nJ@80MHz)
Rep. rate <sup>2</sup> (MHz)	One fixed value between 20MHz-120MHz
Pulse duration <sup>3</sup> (fs)	<250fs
Group Delay Dispersion <sup>4</sup> (fs <sup>2</sup> )	0 to -60000fs <sup>2</sup>
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM <sub>00</sub>
Beam quality(M <sup>2</sup> )	<1.2
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	<2
Polarization ratio	>100:1
Beam height from base plate (mm)	118
Cooled method	Water cooled
Operating temperature (°C)	15~35
Power supply (220/110VAC)	On request
Expected lifetime (hours)	10000
Warranty period	1 year



FS-H-1030-20W	Power supply	Water Chiller
 <p>750(L) × 380(W) × 150(H) mm<sup>3</sup>, 50kg</p>	 <p>483.5 (L) × 409.6(W) × 100.5(H) mm<sup>3</sup>, 4.5 kg</p>	 <p>520(L) × 482.6(W) × 221.5(H) mm<sup>3</sup>, 25 kg</p>

FS-H-1030/20W-50W

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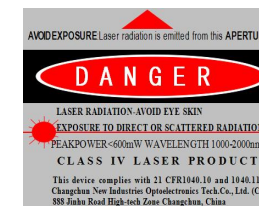


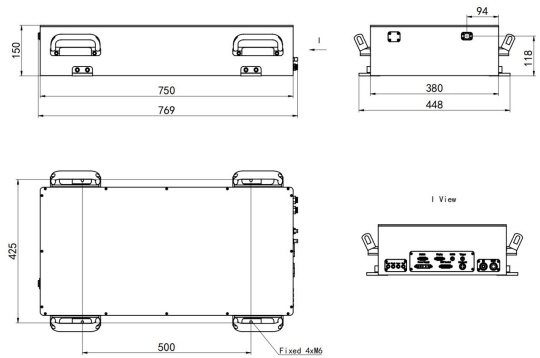
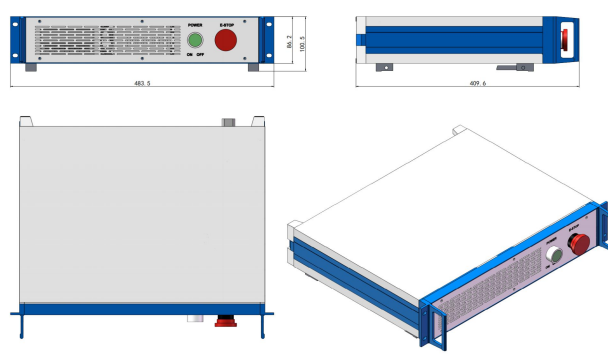
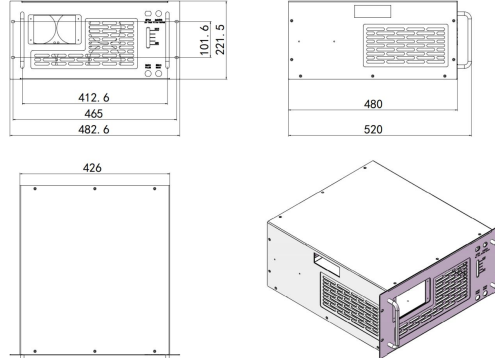
**Note:**

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 sech<sup>2</sup> deconvolution factor.**
4. **It can be controlled by computer.**

**SPECIFICATIONS**

Wavelength (nm)	1030±10
Average power <sup>1</sup> (W)	50W (50W@40MHz/80MHz)
Single pulse energy ( μ J)	>1.25(>1.25μJ @40MHz;>625nJ@80MHz)
Rep. rate <sup>2</sup> (MHz)	One fixed value between 20MHz-120MHz
Pulse duration <sup>3</sup> (fs)	<250fs
Group Delay Dispersion <sup>4</sup> (fs <sup>2</sup> )	0 to -60000fs <sup>2</sup>
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM <sub>00</sub>
Beam quality(M <sup>2</sup> )	<1.2
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	<2
Polarization ratio	>100:1
Beam height from base plate (mm)	118
Cooled method	Water cooled
Operating temperature (°C)	15~35
Power supply (220/110VAC)	On request
Expected lifetime (hours)	10000
Warranty period	1 year



FS-H-1030-50W	Power supply	Water Chiller
 <p>750(L) × 380(W) × 150(H) mm<sup>3</sup>, 50kg</p>	 <p>483.5 (L) × 409.6(W) × 100.5(H) mm<sup>3</sup>, 4.5 kg</p>	 <p>520(L) × 482.6(W) × 221.5(H) mm<sup>3</sup>, 25 kg</p>

FS-H-1030/50W-130W

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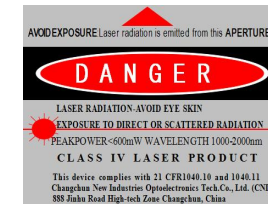


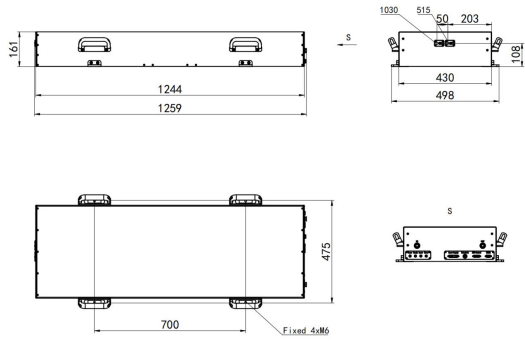
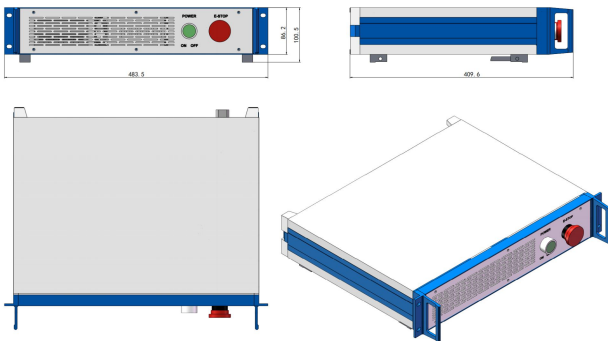
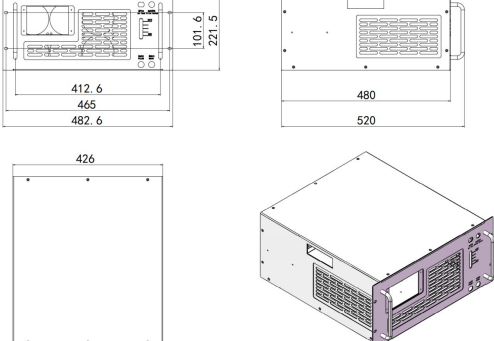
**Note:**

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 sech<sup>2</sup> deconvolution factor.
4. It can be controlled by computer.

**SPECIFICATIONS**

Wavelength (nm)	1030±10
Average power <sup>1</sup> (W)	100W (100W@40MHz/80MHz)
Single pulse energy ( μ J)	>2.5(>2.5uJ @40MHz;>1.25uJ@80MHz)
Rep. rate <sup>2</sup> (MHz)	One fixed value between 20MHz-120MHz
Pulse duration <sup>3</sup> (fs)	<250fs
Group Delay Dispersion <sup>4</sup> (fs <sup>2</sup> )	0 to -60000fs <sup>2</sup>
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM <sub>00</sub>
Beam quality(M <sup>2</sup> )	<1.3
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	<3
Polarization ratio	>100:1
Beam height from base plate (mm)	108
Cooled method	Water cooled
Operating temperature (°C)	15~35
Power supply (220/110VAC)	On request
Expected lifetime (hours)	10000
Warranty period	1 year



FS-H-1030-100W	Power supply	Water Chiller
 <p>1244(L) × 430(W) × 161(H) mm<sup>3</sup>, 90kg</p>	 <p>483.5 (L) × 409.6(W) × 100.5(H) mm<sup>3</sup>, 4.5 kg</p>	 <p>520(L) × 482.6(W) × 221.5(H) mm<sup>3</sup>, 25 kg</p>