

## FYLA PS50 Specifications

Total Power >50 W

Fundamental  
Pulsewidth 400 ps

Spectral Range 1064 nm

Repetition Rate From 1 MHz to 20 MHz

Full Spectrum  
Power Stability < 1 % (std. dev.)

Output  
Polarization Linearly Polarized; PER > 23 dB

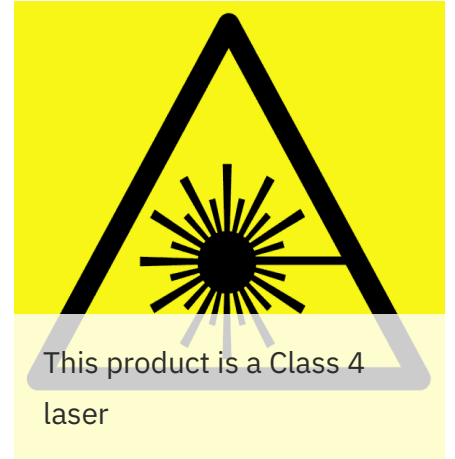
Output Fiber /  
Length 1.5 m - Custom

Optical Output Collimated Output

Synchronization  
/ Connections Trigger Output ( TTL @ 300 KHz  
Rep.rate pulses )

Beam Diameter 2 mm (1/e<sup>2</sup> @ 1064 nm, 0.5 m from  
output)

M2 Parameter < 1.1



## FYLA PS50 Specifications

Half-angle Beam Divergence	0,01° (at 1064 nm)
Cooling	Integrated Peltier + air cooling
Power Requirements	220 V / 110V - 50/60 Hz
Display	N/A
Displayed Parameters (Controlled)	N/A
Control Modes	User friendly Labview-based control software of functionalities of laser and modules.
Operating Temperatures	15 - 30 Celsius
Storage Temperature	0 - 60 Celsius
Dimensions (mm)	500 x 800 x 300
Max Peak Power	>125 kW (@1 MHz. Peak Power and Pulse Energy decrease at higher rep rates. Average Power is kept > 50 W within whole rep. rate range: 1 MHz – 20 MHz )

## FYLA PS50 Specifications

Max Pulse Energy	> 50 $\mu$ J (@1 MHz. Peak Power and Pulse Energy decrease at higher rep rates. Average Power is kept > 50 W within whole rep. rate range: 1 MHz – 20 MHz )
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Compressed Pulse time-width, FWHM (optional Compression module)	continuously tunable from 400 fs to 20 ps
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Optical Power Insertion Loss of Compression Module	< 25%
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Repetition Rate Tunability (optional Burst module)	Single Shot to 5 MHz
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Optical Power Insertion Loss of Burst Module	< 50%
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Dual Output: IR + 532 nm (optional Frequency Doubling Module)	SHG Laser Line at 532 nm. Conversion efficiency: > 50%
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## FYLA PS50 Specifications

Dual Output: IR  
+ 354 nm  
(optional  
Frequency  
Tripling  
Module)

THG Laser line at 354 nm. Conversion  
efficiency: > 20%

SPECTRAL  
PROFILE AND  
OTHER  
DETAILED  
SPECS

UNDER REQUEST

Specifications are subject to change without notice\*



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