JenLas® *fiber cw 50–400*

High Power cw Fiber Lasers

Advantages:

- OEM-design
- CW or modulated up to 100 kHz[3]
- Highly reliable components
- Perfect beam quality ($M^2 < 1.1$)
- Special pulse shape profiles
- Precision selection of pulse energies

Customer benefits:

- Easy integration
- Multifunctional applications
- Low cost of ownership
- Excellent edge quality
- Perfect application results
- User friendly

Applications:

- Cutting
- Drilling
- Annealing
- Sintering
- Welding
- Engraving

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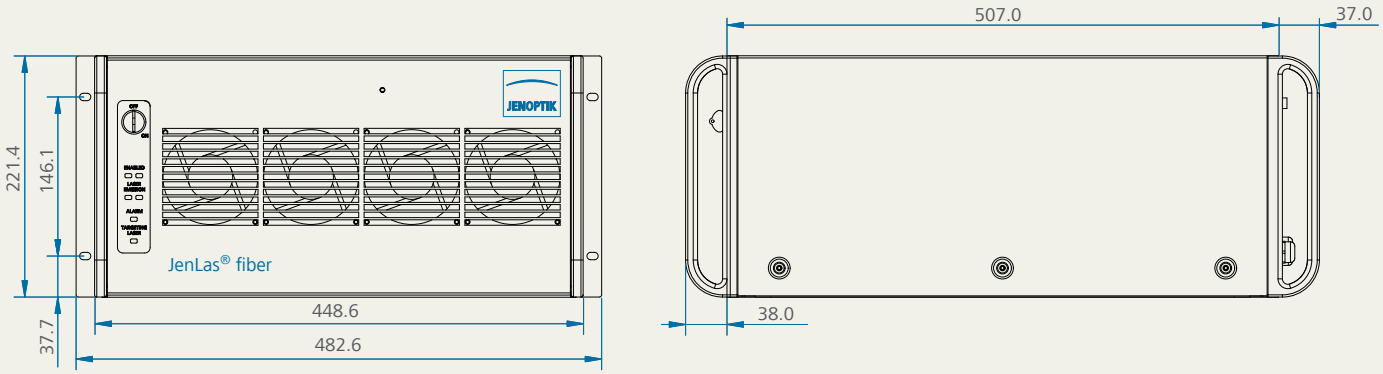
Specifications

Parameters	JenLas® *fiber cw 50*	JenLas® *fiber cw 100*	JenLas® *fiber cw 200*	JenLas® *fiber cw 300*	JenLas® *fiber cw 400*
Output power	50 W	100 W	200 W	300 W	400 W
Centre wave lenght			1070 nm ± 10 nm		
Operation mode			CW or modulated		
Output power stability			< 1 % (closed loop control)[1]		
Pulse characteristics					
Max. modulation			100 kHz[2]		
Pulse to pulse stability			typ. ± 0.5 % (closed loop control)[1]		
Min. pulse width			< 10 µs[3]		
Output beam parameter					
Beam diameter	5.0 mm ± 0.5 mm			5.0 mm ± 0.7 mm	
Beam parameter product			< 0.37 mm * mrad		
Beam quality (M²)			< 1.1		
Polarization			random		
Mechanical specifications					
Size			5 RU (19″) 507 x 483 x 221 mm		
Weight			< 45 kg		
Operation temperature			5 °C–40 °C		
Fiber cable length			6 m		
Cooling option	air cooled	air cooled	air or water cooled[3]	water cooled	water cooled
Electrical specifications					
Operation voltage (50–60Hz)	100–240 V AC	100–240 V AC	200–240 V AC	200–240 V AC	200–240 V AC
Control interface			analog/RS232		

[1] closed loop control function only for advanced versions available
[2] 10 kHz basic versions
[3] only for advanced versions

Options:

- 10 m fiber cable length
- PSE (Pulse Shape Equalization) – only for advanced versions available
- XPR (Extended Processing Range) – only for 200 to 400 W advanced versions available



This illustration is the air cooled version / outside dimensions water and air cooled are identical

It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.
Please contact us for further technical details.

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