



## JenLas<sup>®</sup> fiber cw 50-400

High Power cw Fiber Lasers



### Advantages:

- OEM-design
- CW or modulated up to 100 kHz<sup>3</sup>
- 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

# JenLas<sup>®</sup> fiber cw 50-400

## High Power cw Fiber Lasers

### Specifications

Parameters	JenLas <sup>®</sup> fiber cw 50	JenLas <sup>®</sup> fiber cw 100	JenLas <sup>®</sup> fiber cw 200	JenLas <sup>®</sup> fiber cw 300	JenLas <sup>®</sup> fiber cw 400
Output power	50 W	100 W	200 W	300 W	400 W
Centre wave length	1070 nm ± 10 nm				
Operation mode	CW or modulated				
Output power stability	< 1 % (closed loop control) <sup>1</sup>				
<b>Pulse characteristics</b>					
Max. modulation	100 kHz <sup>2</sup>				
Pulse to pulse stability	< 0.5 % (closed loop control) <sup>1</sup>				
Min. pulse width	< 10 µs <sup>3</sup>				
<b>Output beam parameter</b>					
Beam diameter	5.0 mm ± 0.5 mm		5.0 mm ± 0.7 mm		
Beam parameter product	< 0.37 mm * mrad				
Beam quality (M <sup>2</sup> )	< 1.1				
Polarization	random				
<b>Mechanical specifications</b>					
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 or water cooled <sup>3</sup>	air or water cooled <sup>3</sup>	water cooled	water cooled
<b>Electrical specifications</b>					
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				

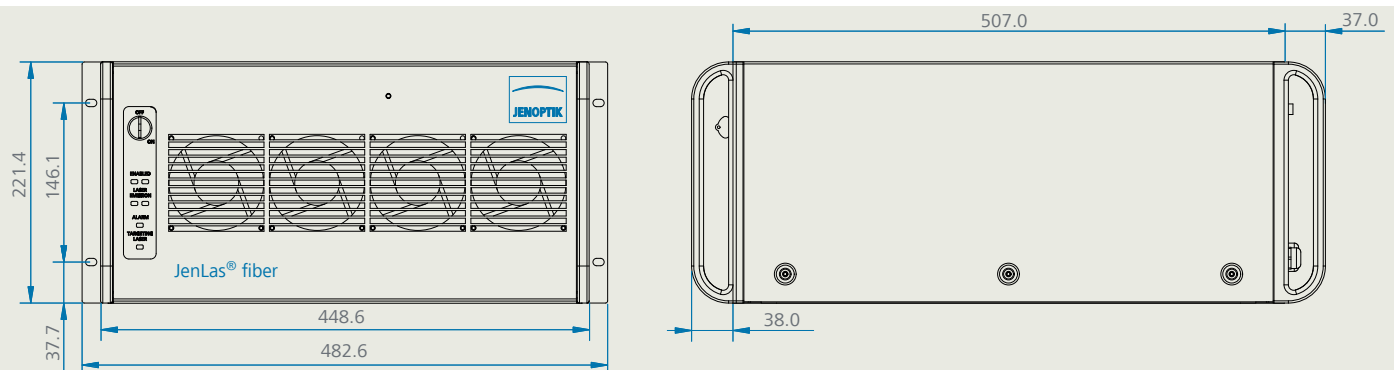
<sup>1</sup> closed loop control function only for advanced versions available

<sup>2</sup> 10 kHz basic versions

<sup>3</sup> 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.



JENOPTIK | Lasers & Material Processing

JENOPTIK Laser GmbH

Goeschwitzer Strasse 29 | 07745 Jena | Germany

Phone: +49 3641 65-3053 | Fax: +49 3641 65-4011

E-mail: sales-laser.lm@jenoptik.com | www.jenoptik.com/solidstatelasers

