3SPGroup





ML-YFA-CW-SLM-P-TKS ML-EYFA-CW-SLM-P-TKS

Series

KeyFeatures

Linear Polarization

For SLM laser amplification

Excellent beam quality (M²<1.1)

Up to 20W CW of output power in 1.0µm

Up to 15W CW of output power

in 1.5µm
All optical isolated

Highly reliable laser diode pumps

Convenient front panel control

Maintenance free operation

Compact & rugged design

Including heat sink & fan

Cables including

Safety interlock

Air cooled

USB

Applications

Atom cooling and atom trapping

Spectroscopy

Frequency doubling

Micromachining

Measurement

Telecom

Component testing

Coherent detection

Medical

R&D

For moreInfo

Please contact us at:

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888.922.1044

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HED Product Line

1.0µm and 1.5µm CW SLM PM Fiber Amplifiers

The ML-YFA/EYFA-CW-SLM-P-TKS, "Turn Key System" is a compact CW Fibre Amplifier delivering up to 20W of output power at 1.0µm and 15W at 1.5µm, through a near diffraction limited linearly polarized beam (M²<1.3). The ML-YFA/EYFA-CW-SLM-P-TKS is optimised for the amplification of Single Longitudinal Mode (SLM) laser sources of down to 10kHz instantaneous Full Width at Half Maximum (FWHM). The design and configuration of this amplifier render it unique and reliable. The power is delivered trough a polarized beam and with excellent power stability. Our patented "Injection Technology" allows the use of highly reliable broad area laser diode pumps, for a cost-effective and maintenance-free operation. The all-fibre design guarantees the robustness of the amplifier, without any optical parts to align or to stabilise. The simple integration of the Bench Top system requires no after-installation service.

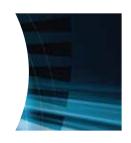


3SPGroup

HED Product Line

1.0µm and 1.5µm CW SLM **PM Fiber Amplifiers**





ML-YFA-CW-SLM-P-TKS

SPECIFICATIONS*

Series

STANDARD CONFIGURATIONS

Parameter	Value							
Operation mode	CW							
Nominal Seed Laser Wavelength	1064 typ.							
Seed Laser Wavelength Range	1060-1090 (others on request)							
Seed Laser Instantaneous Linewidth	>1							
Nominal input power	5							
Input power range	5-50							
Nominal output power (@ 25mW input)	1	3	5	10	15	20	W	
Output power tunability	30 – 100							
Long term stability (RMS, over 1h@25°C)	<+/-2							
Polarization	Linear							
PER (Polarization Extinction Ratio)	> 15	> 15	> 15	> 15	> 13	> 13	dB	
Input fiber type	Panda 980							
Input fiber length	1							
Input fiber connector	FC/APC							
Output fibre length	typ. 50							
Output fiber termination	Collimated Beam							
Typical beam diameter @1/e ²	<2.2 <1							
Optical isolation	Input, inter-stages and output							
Beam quality M ²	<1.3							
Dimensions	3U 19" (448 x 451 x 132)							
Weight	< 13							
Storage / Operation Temperature	0 to + 50 / + 15 to + 35							
Control mode	ACC							
Control interface	Front panel or USB							
Operating voltage AC	88 to 264							
Typ. power consumption (@ 25°C)	<150	<150	<250	<320	<350	<480	W	

Ordering Information: MLxx-YFA-CW-SLM-P-TKS xx = Average output power in Watts

Options:

- 10x beam expander
- Customised specs on request
- Extended warranty.

Operating and safety considerations 3SPGroup Fibre Amplifiers comply with CE, FDA & RoHS. All 3SPGroup Fibre Lasers are patent pending.

The 3SPGroup Fibre Amplifiers emit both invisible Class IV and visible Class II radiations. Direct and scattered radiation can be harmful to the human eye. Proper laser safety eyewear must be worn during operation. Information in this document is subject to change without notice.



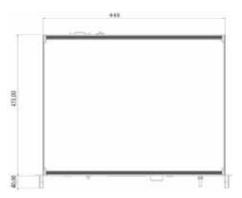
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Revised March 2012

Mechanical drawings:





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HED Product Line

1.0µm and 1.5µm CW SLM **PM Fiber Amplifiers**





ML-EYFA-CW-SLM-P-TKS

SPECIFICATIONS*

Series

STANDARD CONFIGURATIONS

Parameter	Value							
Operation mode	CW	-						
Nominal Seed Laser Wavelength	1550 typ.							
Seed Laser Wavelength Range	1540-1560 (others on request)							
Seed Laser Instantaneous Linewidth	>1	kHz						
Nominal input power	5	mW						
Input power range	5-25	mW						
Nominal output power (@ 25mW input)	1	3	5	10	15	W		
Output power tunability	30 – 100	%						
Long term stability (RMS, over 1h@25°C)	<+/-2	%						
Polarization	Linear	-						
PER (Polarization Extinction Ratio)	> 15	> 15	> 15	> 15	> 13	dB		
Input fiber type	Panda 1							
Input fiber length	1	m						
Input fiber connector	FC/APC							
Output fibre length	typ. 50	cm						
Output fiber termination	Collimat	-						
Typical beam diameter @1/e ²	<2.4 5							
Optical isolation	Input, in	-						
Beam quality M ²	<1.1	-						
Dimensions	3U 19" (mm ³						
Weight	< 13	kg						
Storage / Operation Temperature	- 0 to +	°C						
Control mode	ACC	-						
Control interface	Front pa	V						
Operating voltage AC	88 to 26	V						
Typ. power consumption (@ 25°C)	<150	<150	<250	<320	<450	W		

Ordering Information: MLxx-EYFA-CW-SLM-P-TKS xx = Average output power in Watts

Options:

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