3SPGroup





ML-CW-P-OEM/TKS-OTS

Series

KeyFeatures

Linear polarization

Narrow linewidth (<0.25nm)

Up to 30W CW of output power

Excellent beam quality (M²<1.1)

Highly reliable laser diode pumps

Maintenance free operation

Benchtop or OEM format

Compact & rugged design

Forced air cooled

Cables included

USB

Applications

Research

Measurement

Optical Tweezing

For moreInfo

Please contact us at:

North America: 514.748.4848

888.922.1044

Europe & Asia: +33 (0) 2 96 04 20 00 or via e-mail at sales@3spgroup.com

GEVEL Product Line

1.0µm CW PM Fiber Lasers for Optical Tweezing

The ML-CW-P-OEM/TKS-OTS is a compact CW fibre Laser delivering up to 30W of output power, through a near diffraction limited linear polarized beam (M²<1.1). The narrow linewidth of the ML-CW-P-OEM/TKS-OTS makes this laser unique and optimized light source for all optical tweezing applications.

Our patented "Injection Technology" allows the use of highly reliable broad area laser diode pumps, for a cost-effective and maintenance-free operation. The allfibre design guarantees the robustness of the laser, without any optical parts to align or to stabilise. The simple integration of the system requires no after-installation service. The ML-CW-P-OEM/TKS-OTS is the ideal solution for a broad range of scientific applications.





3SPGroup

GEVEL Product Line

1.0µm CW PM Fiber Lasers for Optical Tweezing





ML-CW-P-0EM/TKS-0TS

SPECIFICATIONS*

Series

STANDARD CONFIGURATIONS

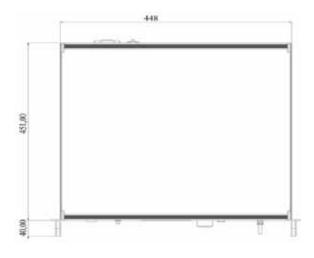
Parameter	Value							
Operation mode	CW - modulated -							
Nominal output power	1	5	10	20	30	W		
Output power tunability	10 – 100							
Long term stability (RMS, over 1h@20°C)	<+/-2					%		
External TTL modulation frequency	Up to 10							
Laser wavelength	1064 or 1080 (other wavelength on request 1060 to 1100)							
Emission bandwidth (FWHM)	< 0.25							
Polarization	Linear							
PER (Polarization Extinction Ratio)	> 20	> 18	>17	>15	> 15	dB		
Laser output configuration	Gaussian profile							
Output fibre length	3							
Typical beam diameter @1/e²	2.2 5							
Beam quality M ²	<1.1							
Dimensions	3U 19" (448 x 451 x 132)							
Weight	< 13							
Storage / Operation Temperature	0 to +55 / + 15 to + 35							
Control interface	Front panel or USB							
Operating voltage AC	88 to 264							
Typ. power consumption (@ 25°C)	< 40	< 50	< 180	< 320	< 450	W		

Revised March 2012

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

- Variety of fibre lengths
- Different collimation optics
- Back reflection output isolator
- Variety of output terminations
- Customised specs on request
- Extended warranty

Operating and safety considerations 3SPGroup Fibre Lasers comply with CE, FDA & RoHS. All 3SPGroup Fibre Lasers are patent pending. Mechanical drawings: The 3SPGroup Fibre Lasers 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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GEVELProduct Line

1.0µm CW PM Fiber Lasers for Optical Tweezing





ML-CW-P-0EM-0TS

Series

SPECIFICATIONS*

STANDARD CONFIGURATIONS

Parameter	Value						
Operation mode	CW - modulated						
Nominal output power	1	5	10	20	30	W	
Output power tunability	10 – 100						
Long term stability (RMS, over 1h@20°C)	<+/-2						
External TTL modulation frequency	Up to 5.0						
Laser wavelength	1064 or 1080 (other wavelenght available)						
Emission bandwidth (FWHM)	< 0.25						
Polarization	Linear						
PER (Polarization Extinction Ratio)	> 20	> 18	> 17	> 15	> 15	dB	
Laser output configuration	Gaussian profile						
Output fibre length	3						
Typical beam diameter @1/e ²	2.2 5						
Beam quality M ²	< 1.1					-	
Dimensions	178 x 230 x 65 285 x 215 x 120					m ³	
Weight	< 10					kg	
Storage / Operation Temperature	-20 to +60 / + 15 to + 45						
Control interface	RS-232						
Operating voltage DC	12					٧	
Typ. power consumption (@ 25°C)	< 30	< 30	< 150	< 320	< 450	W	

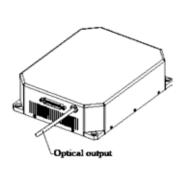
Revised March 2012

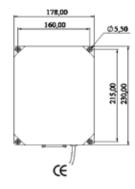
Ordering Information:
MLxx-CW-P-OEM-OTS
xx = Average output
power in Watts

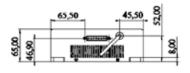
Options

- Variety of fibre lengths
- Different collimation optics
- Back reflection output isolator
- Variety of output terminations
- Customised specs on request
- Extended warranty
- 12V power supply

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Please contact your Sales Manager. 3SPGroup can also develop custom products to meet a wide range of technical requirements.

Please note: information in this document is typical and must be specifically confirmed

in writing by your supplier before it becomes applicable to any order or contract.







