





ML-CW-R-OEM/TKS ML-CW-P-OEM/TKS

Series

KeyFeatures

Up to 100W CW of output power

Up to 20W in PM version

Excellent beam quality (M²<1.1)

Highly reliable laser diode pumps

Maintenance free operation

Compact & rugged design

Forced air cooled

Cables included

Exchangeable Pump technology

Safety Interlock

RS232

EPL technology

Applications

Marking
Welding
Cutting
Printing
Sintering
Soldering
Engraving
Measurement
Graphic Imaging

For moreInfo

Please contact us at:

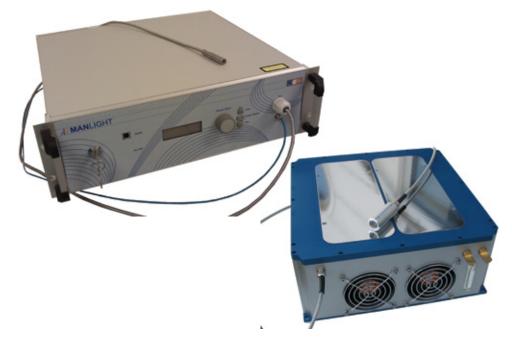
North America: 514.748.4848

888.922.1044

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

TARV Product Line 1.0µm CW High Power Fiber Lasers

The ML-CW-R-OEM/TKS is a compact CW Fibre Laser delivering up to 100W of output power, through a near diffraction limited beam (M²<1.1). Designed under the proprietary "EPL" technology (Exchangeable Pump Laser), there is no need to send back the ML-CW-R-OEM/ TKS to Manlight for maintenance as one can make the swap of the pump diode very easily. Maintenance and lifetime of the product is no more an issue. The excellent beam quality and power stability make the Manlight fibre laser a multi-purpose tool. 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 laser, without any optical parts to align or to stabilize. The simple integration of the system requires no after-installation service. The ML-CW-R-OEM/TKS is the ideal solution for a broad range of industrial and scientific applications. A Polarization Maintaining version is available with output power up to 20W (ML-CW-P-OEM/TKS)

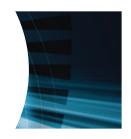


3SPGroup

TARVProduct Line

1.0µm CW High Power Fiber Lasers





ML-CW-R-TKS ML-CW-P-TKS

Series

SPECIFICATIONS*

STANDARD CONFIGURATIONS

Parameter	Value							
Operation mode	CW - m	CW - modulated						
Nominal output power	1	5	10	20	30	50	100	W
Output power tunability	10 – 100							
Long term stability (RMS, over 1h@20°C)	<+/-2							%
External TTL modulation frequency	Up to 10.0							kHz
Laser wavelength	1064 or 1080 1080						nm	
Signal linewidth (FWHM)	<1	<1 <3					nm	
Polarization Extinction Ratio	>18	>18	>17	>15	>N/A	>N/A	N/A	dB
Laser output configuration	Gaussian profile							-
Output fibre length	3	3						m
Typical beam diameter @1/e ²	<	<2.2 5					mm	
Beam quality M ²	< 1.1						-	
Dimensions	3U 19" (448 x 451 x 132)							mm³
Weight	< 13							kg
Storage / Operation Temperature	0 to + 50 / + 15 to + 35							°C
Control interface	Front panel or USB							-
Operating voltage AC	88 to 264							V
Typ. power consumption (@ 25°C)	<500	<180	<150	<320	<350	<1000	<1500	W

 ${\it Ordering\ Information:}$

MLxx-CW-y-TKS

xx = Average output power in Watts

y = R for random, P for polarized

Options:

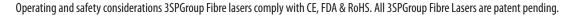
- Others wavelengths upon request
- Variety of fibre lengths
- Different collimating optics
- Back reflection output isolator
- Control interface options
- Customised specs on request
- Red pilot option
- Extended warranty
- 12 V power supply
- Rack 19" version

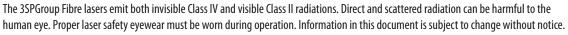
Revised March 2012



Œ







3SPGroup

TARVProduct Line

1.0µm CW High Power Fiber Lasers





ML-CW-R-OEM ML-CW-P-OEM

Series

SPECIFICATIONS*

STANDARD CONFIGURATIONS

Parameter	Value							
Operation mode	CW - m	CW - modulated						
Nominal output power	1	5	10	20	30	50	100	W
Output power tunability	10 – 100							
Long term stability (RMS, over 1h@20°C)	<+/-2							%
External TTL modulation frequency	Up to 10.0							kHz
Laser wavelength	1064 or 1080 1080						80	nm
Signal linewidth (FWHM)	<1	<1 <3					nm	
Polarization Extinction Ratio	>18	>18	>17	>15	>N/A	>N/A	N/A	dB
Laser output configuration	Gaussian profile							-
Output fibre length (typical)	3							m
Typical beam diameter @1/e²	<2	<2.2 5						mm
Beam quality M ²	<1.1							-
Dimensions (heatsink included)		230 x 178 x 65 230 x			75x 65 285 x 28		285 x 285 x 150	
Weight (heatsink included)		<5 <			10	<18	<20	kg
Storage / Operation Temperature	- 20 to + 60 / + 15 to + 40							°C
Control interface	Analog / RS-232							-
Operating voltage DVC	12							٧
Typ. power consumption (@ 25°C)	<20	<30	<150	<320	<350	<1000	<1500	W

 ${\it Ordering\ Information:}$

MLxx-CW-y-TKS

xx = Average output power in Watts

y = R for random, P for polarized

Options:

- Others wavelengths upon request
- Variety of fibre lengths
- Different collimating optics
- Back reflection output isolator
- Control interface options
- Customised specs on request
- Red pilot option
- Extended warranty
- 12 V power supply
- Rack 19" version

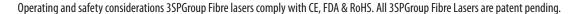
Revised March 2012







Œ



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.

3SPGroup

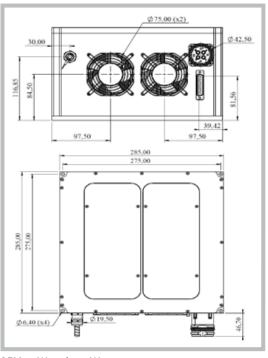
TARVProduct Line

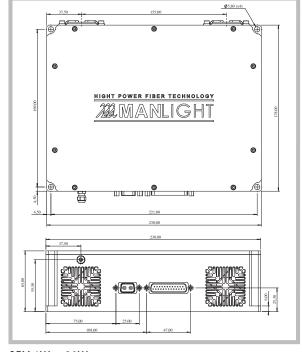
1.0µm CW High Power Fiber Lasers





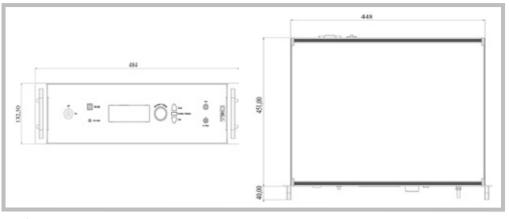
MECHANICAL PACKAGES





0EM 50W and 100W

OEM 1W to 30W







Benchtop units

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. Information is subject to change without notice.

©2011 3S PHOTONICS S.A.S.

ORDERING INFO

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



North America: 514.748.4848

888.922.1044

Europe and Asia: +33 (0) 2 96 04 20 00 www.3spgroup.com • sales@3spgroup.com







