

HIGH Power Fiber Technology

1 μ m Polarized Fiber Laser

Features:

- Linear polarization
- Up to 5W CW of output power
- Excellent beam quality ($M^2 < 1.1$)
- Highly reliable laser diode pumps
- Maintenance free operation
- Compact & rugged design
- Forced air cooled
- Cables included
- USB



Applications:

- Research
- Measurement
- Medical

ML5-CW-P-TKS

The ML5-CW-P-TKS "TurnKey system" is a compact CW Fibre Laser delivering up to 5W of output power, through a near diffraction limited linear polarized beam ($M^2 < 1.1$). 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 stabilise. The simple integration of the system requires no after-installation service. With either a connectorised FC/APC or a collimated output termination the ML5-CW-P-TKS is the ideal solution for a broad range of industrial and scientific applications.

ML5-CW-P-TKS

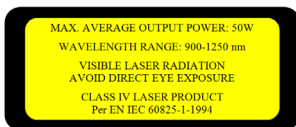
Options:

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

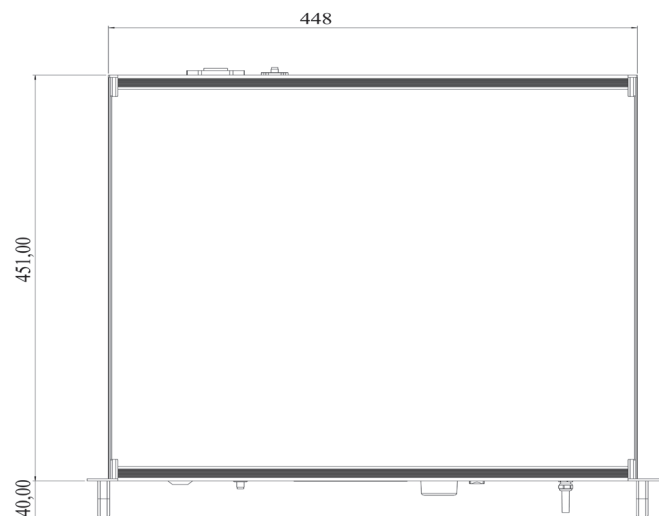
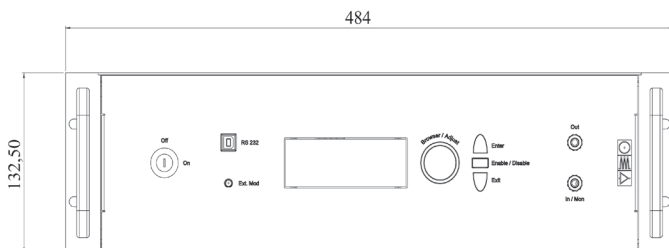
Operating and safety considerations
 Manlight Fibre Amplifiers comply with CE, FDA & RoHS. All Manlight Fibre Lasers are patent pending.

The Manlight 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.

Parameter	Value	Unit
Operation mode	CW - modulated	-
Nominal output power	Up to 5	W
Output power tunability	10 – 100	%
Long term stability (RMS, over 1h@20°C)	<+/-2	%
Laser wavelength	1060 – 1100	nm
Emission bandwidth (FWHM)	< 1	nm
Polarization	Linear	-
PER (Polarization Extinction Ratio)	> 18	dB
Laser output configuration	Gaussian profile	-
Output fibre length	3	m
Typical beam diameter @1/e ²	2.2	mm
Beam quality M ²	< 1.1	-
Dimensions	3U 19" (448 x 451 x 132)	mm ³
Weight	< 13	kg
Storage / Operation Temperature	0 to +55 / +15 to +35	°C
Control Interface	Front panel or USB	-
Operating voltage VAC	85-264	V
Typical power consumption (5W @ 25°C)	<50	W



Mechanical drawings:



Ordering Information: ML5-CW-P-TKS
 Product Code: 145