3SPGroup





ML-YFA-CW-P-0EM/TKS ML-YFA-CW-R-0EM/TKS

Series

KeyFeatures

Single mode operation TEM00

Up to 50W CW of output power

Up to 30W in PM version

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

OEM version available

Applications

Research

Components testing

Material processing

For moreInfo

Please contact us at:

North America: 514.748.4848

888.922.1044

Europe & Asia: +33 (0) 1 69 80 58 33 or via e-mail at sales@3spgroup.com

AMPLAAT Product Line

1.0µm CW Fiber Power Amplifiers

The ML-YFA-CW-R-TKS, "Turn Key System" is a compact 1.0µm CW Fibre Amplifier delivering up to 50W of output power through a diffraction limited linearly polarized beam (M²<1.1). The polarization maintaining version, the ML-YFA-CW-P-TKS, can reach output power of 30W. The ML-YFA-CW-R-TKS and ML-YFA-CW-P-TKS are optimised for the amplification of laser sources of more than 100MHz Full Width at Half Maximum (FWHM). The design and configuration of these amplifiers render it unique and reliable.

The power is delivered trough a randomly 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. Both version are available in OEM format (-OEM)



3SPGroup

AMPLAAT Product Line

1.0µm CW Fiber Power Amplifiers





ML-YFA-CW-P-0EM/TKS ML-YFA-CW-R-0EM/TKS

Series

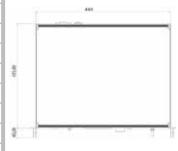
SPECIFICATIONS*

STANDARD CONFIGURATIONS

Parameter	Value									Unit
Operation mode	CW									-
Seed Laser nominal wavelength	1064 >1070								nm	
Seed Laser wavelength range	1060-1090									nm
Seed laser linewidth	> 100									MHz
Nominal input power	10									mW
Input power range	10-100									mW
Nominal output power (@ 10mW input)	1	3	5	10	15	20	30	40	50	
Output power tunability	30 – 100									%
Polarization Extinction Ratio	> 20	> 20	> 17	>17	>15	> 15	> 15	NA	NA	dB
Long term stability (RMS, over 1h@25°C)	<+/-2									%
Polarization	Random / Polarized									-
Input fiber type	HI1060 / Panda									-
Input fiber length	1 typ.									m
Input fiber connector	FC/APC									-
Output fiber type	HI1060 / Panda									-
Output fiber length	1 typ.									m
Output fiber connector	FC/APC Collimated Beam							-		
Beam quality M ²	1.1 (TEM ₀₀)									-
Max. optical return loss of external system	-2	21	-26	-28	-30	-33		-35		dB
Dimensions	3U 19" (448 x 451 x 132)									mm³
Weight	< 13									kg
Storage / Operation Temperature	0 to +50 / +15 to +35									°C
Control mode	ACC									-
Control interface	Front panel or USB									
Operating voltage AC	88 to 264									V
Typ. power consumption (@ 25°C)	<80	<120	<120	<150	<200	<250	<450	<750	<1000	W

Ordering Information: MLxx-YFA-CW-y-TKS xx = 0utput power in Watts y = R for Random, P for Polarized

Mechanical drawings:





Revised March 2012

3SPGroup North America: 514.748.4848

888.922.1044

Europe and Asia: +33 (0)1 69 80 58 33 www.3spgroup.com • sales@3spgroup.com











Please contact your Sales Manager. 3SPGroup can also develop

custom products to meet a wide range of technical requirements.

^{*}Specifications subject to change without notice.