



YAR-100-1064-LP-SF

Single Frequency Ytterbium Amplifier

NEW PRODUCT



Applications

- ▶ Holography and Interferometry
- ▶ Atom Trapping and Optical Tweezers
- ▶ Optical Metrology
- ▶ Biomedical Instrument Integration
- ▶ High Resolution CW Spectroscopy
- ▶ CW Mid-IR OPO pumping



Features

- ▶ Selectable Wavelength
- ▶ Single Frequency
- ▶ Up to 100 W Saturated Output Power
- ▶ Single-mode Fiber Delivery
- ▶ Extremely Reliable
- ▶ Air-cooled
- ▶ Automatic Power and Current Controls
- ▶ Operation in Adverse Ambient Conditions
- ▶ Advanced Protection Circuits Against Input Signal Interruption and High Back Reflection

The **YAR-LP-SF Series** is a line of linearly polarized (LP) single frequency (SF) single-mode fiber amplifiers covering the spectral range from 1030-1070 nm. Typical bandwidth of the amplifier is 10-20 nm (depending on output power) which allows tunability of the input signal for exact wavelength matching. The series includes 1-100 W versions. These user friendly and highly efficient 19" rack mounted devices are designed for maintenance-free applications over a temperature range of 10°C to 35°C. The YAR-LP-SF Series is optimized for linearly polarized single frequency input signals and can be used for a variety of applications including coherent beam combining, detection systems, sensing and other applications.

YAR-100-1064-LP-SF

Single Frequency Ytterbium Amplifier

Optical Characteristics

Central Wavelength Range, nm	1030-1070
Mode of Operation	CW/Pump Current Modulation with External Signal
Input Power Range*, mW	1-5
Saturated Output Power** (Pin = 1 mW), W	100
Power Tunability, %	1-100
Power Stability***, %	3
Long-Term Output Power Instability, %	<1.5 at Constant Temperature <3 for +/-2°C Temperature Fluctuations
Relative Residual Pump at Input/Output Ports, dB	-60
Polarization	Linear, >100:1

* Other input power ranges are available.

** Other output powers are available.

*** Over 8 hours

General Characteristics

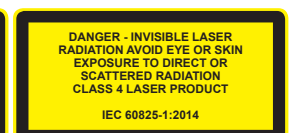
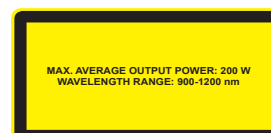
Cabinet Dimensions (W × D × H), mm	448 × 504 × 177
Weight, kg	<30
Cooling	Air
Supply Voltage, VAC 50/60 Hz	100-240
Power Consumption (20°C), W	<500

* YAM OEM module packages are available upon request.

+1 (508) 373-1100; sales.us@ipgphotonics.com
 +49 2736 44200; sales.europe@ipgphotonics.com (European Inquiries)

www.ipgphotonics.com

Legal notices: All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind IPG only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with use of a product or its application. IPG, IPG Photonics, The Power to Transform and IPG Photonics' logo are trademarks of IPG Photonics Corporation. © 2015-19 IPG Photonics Corporation. All rights reserved.



The Power to Transform®