



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.



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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 <1.5 at Constant Temperature Long-Term Output Power Instability, % <3 for +/-2°C Temperature Fluctuations Relative Residual Pump at Input/Output Ports, dB -60 Polarization Linear, >100:1

^{***} Over 8 hours

General Characteristics	
Cabinet Dimensions (W \times D \times 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.

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DANGER - INVISIBLE LASER
RADIATION AVOID EYE OR SKIN
EXPOSURE TO DIRECT OR
SCATTERED RADIATION
CLASS 4 LASER PRODUCT
IEC 60825-1:2014

^{*} Other input power ranges are available.

^{**} Other output powers are available.