



# YDFA-XX-PM-R



DEVICE

## Dual Stage Ytterbium Doped Fiber Amplifier, Polarization Maintaining (PM), Rackmount

OVERVIEW

The Optilab YDFA-XX-PM-R is a high-gain dual pumped polarization maintaining optical amplifier unit designed for applications requiring high efficiency optical amplification in the 1060 nm regime in both CW and pulse mode operations. It is a self-contained, turn-key standard 1U rackmount designed to supply high and stable gain across the specified range of the wavelength window with optical output power up to +30 dBm.

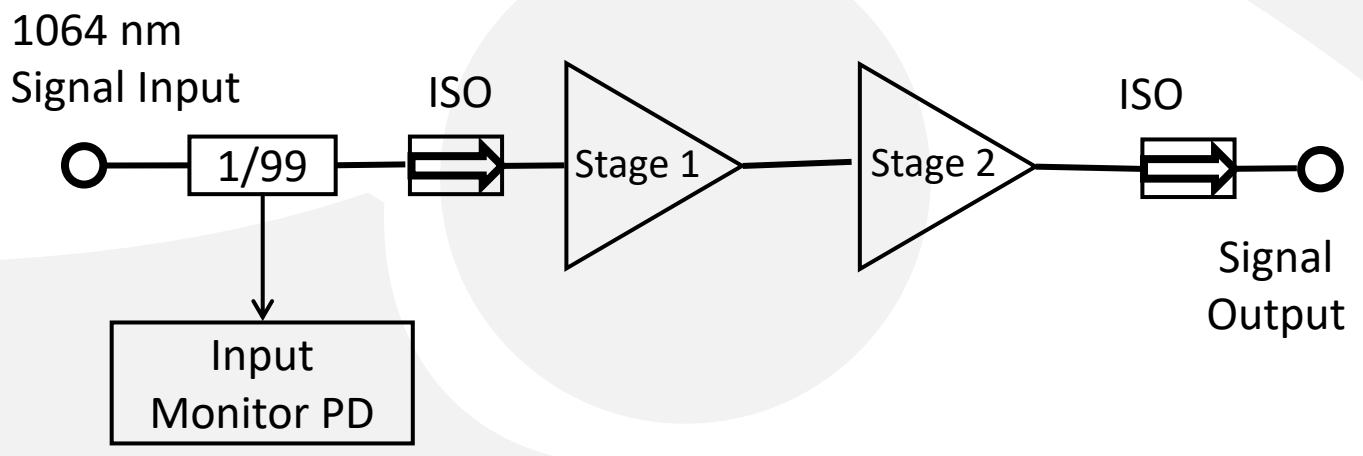
FEATURES

- PM Output
- High SNR near saturation power
- Saturation power Up to +30 dBm
- Dual Stage Amplification
- Pulse and CW operation modes
- Interlock safety feature
- Gain up to 40dB

USE IN

- SHG
- Medical
- Industrial
- Fiber Optic Sensing
- Lower Power Pulse Amplification
- MOPA

FUNCTION DIAGRAM





# YDFA-XX-PM-R

## SPECIFICATIONS

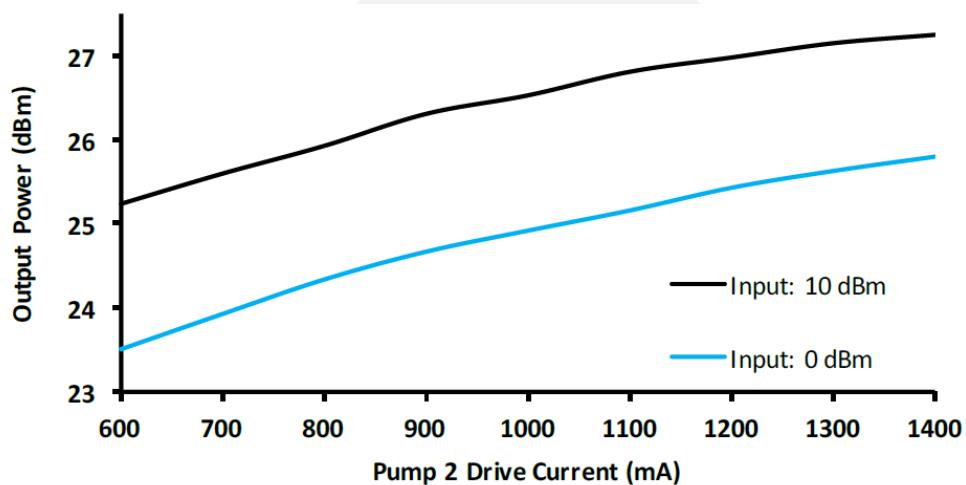
### GENERAL

|                                 |  |
|---------------------------------|--|
| Wavelength Range                | 1050 nm to 1074 nm<br>(Other Range Available upon Request) |
| Input Power Level               | -10 dBm to 0 dBm   |
| Output Power                    | Up to +30dBm   |
| Input Isolation                 | >30 dB   |
| Output Isolation                | >30 dB   |
| Gain                            | 40 dB @ -10 dBm  |
| Optical Input/Output fiber type | PM 980   |
| Control Mode                    | ACC  |
| Remote Control interface        | RS232 via USB  |

### MECHANICAL

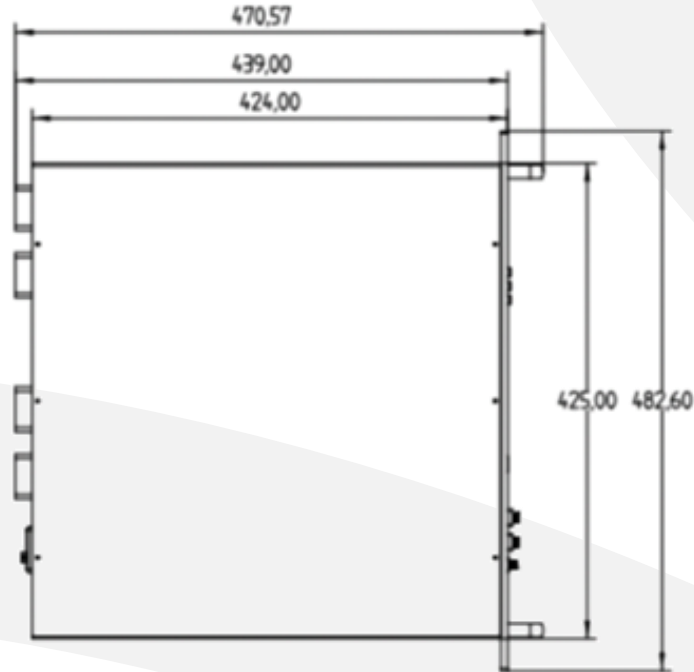
|                       |  |
|-----------------------|--|
| Operating temperature | +10°C to +30°C                               |
| Storage temperature   | -10°C to +70°C                               |
| Power Supply          | 100 to 240 VAC                               |
| Control               | Pump laser current, enable switch            |
| Monitoring            | Pump laser current, input power              |
| Dimensions            | 1RU 482.60 (L) x 470.57 (W) x 44.00 (H) (mm) |

### SAMPLE TEST DATA



# YDFA-XX-PM-R

MECHANICAL DRAWING



## ORDERING OPTIONS

### YDFA-XX-PM-R

**XX** Output Power Level: 25, 27, 30 dBm

## RELATED RACKMOUNT

- **YDFA-40-PM-R**



The Optilab YDFA-40-PM-R is a polarization maintaining high power ytterbium doped fiber amplifier up to +40 dBm. It features easy to use front panel control. Contact Optilab for more details

