



YDFA-40-R



DEVICE

High Output Triple Staged Ytterbium Doped Fiber Amplifier, Rackmount

OVERVIEW

The Optilab YDFA-40-R is a high-gain three staged single mode 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 +40 dBm.

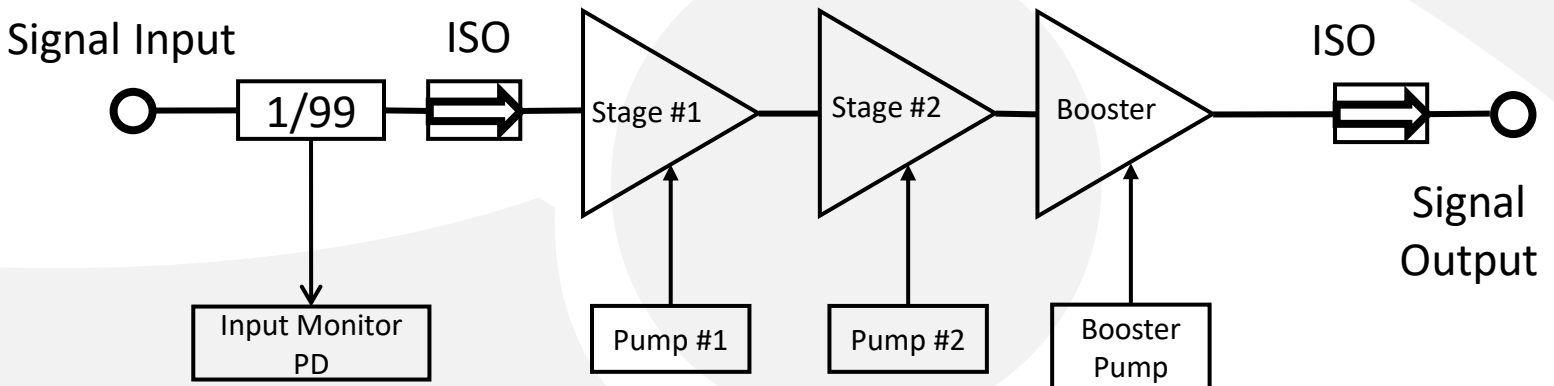
FEATURES

- High SNR near saturation power
- Saturation power Up to +40 dBm
- Triple Staged Amplification
- Pulse and CW operation modes
- Interlock safety feature
- Gain up to 40 dB

USE IN

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

FUNCTION DIAGRAM





YDFA-40-R

SPECIFICATIONS

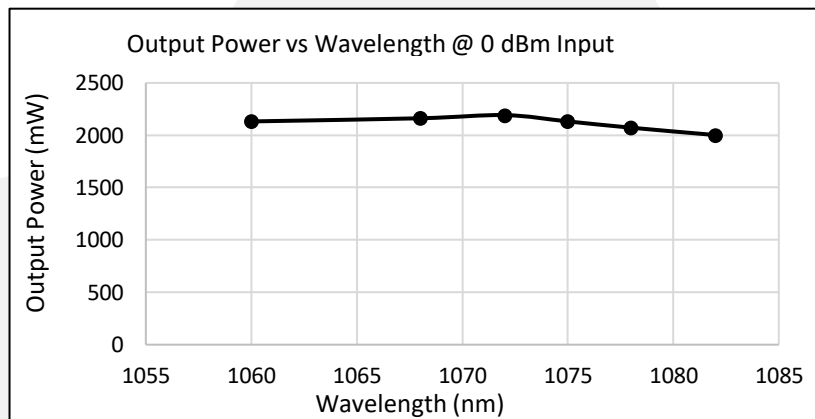
GENERAL

Wavelength Range	1050 nm to 1074 nm (Other Range Available upon Request)
Input Power Level	-10 dBm to 10 dBm
Output Power	Up to +40 dBm
Input Isolation	>30 dB
Output Isolation	>30 dB
Gain	40 dB @ -10 dBm
Optical Input fiber type	HN1060, High Power Connector or Collimator
Optical Output fiber type	Passive-12/125OC (40dBm Ver : Large core fiber)
Control Mode	ACC
Remote Control interface	RS232 via USB

MECHANICAL

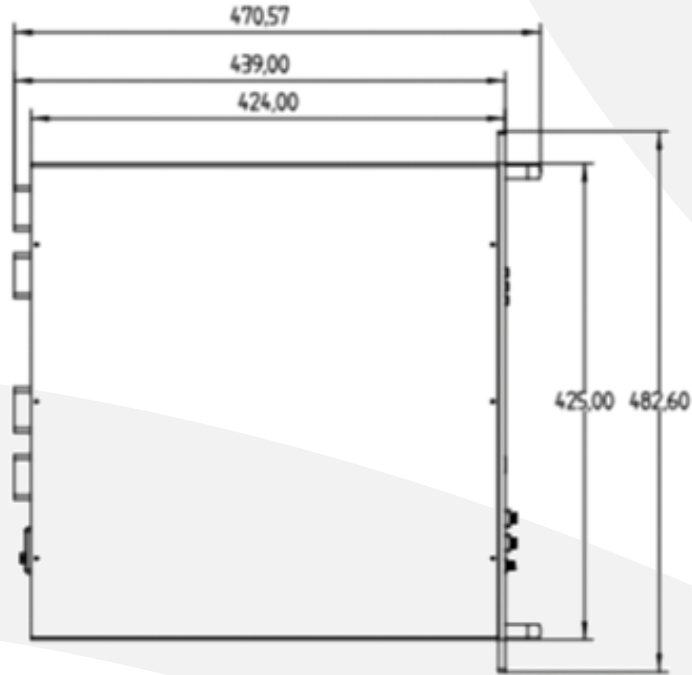
Operating temperature	+ 10°C to +30°C
Storage temperature	- 10°C to +70°C
Power Supply	100 to 240 VAC
Control	Pump laser current, enable switch
Monitoring	Pump laser current, input power
Dimensions	1RU 482.60 (L) x 470.57 (W) x 44.00 (H) (mm)

SAMPLE TEST DATA (33dBm Ver.)



YDFA-40-R

MECHANICAL DRAWING



ORDERING OPTIONS

YDFA-XX-R

XX Output Power Level: 33, 37, 40dBm

RELATED RACKMOUNT

- **YDFA-43-R**



The Optilab YDFA-43-R is a high power ytterbium doped fiber amplifier up to +43 dBm. It features easy to use touch screen front panel. Contact Optilab for more details

