



# 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 selfcontained, 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.

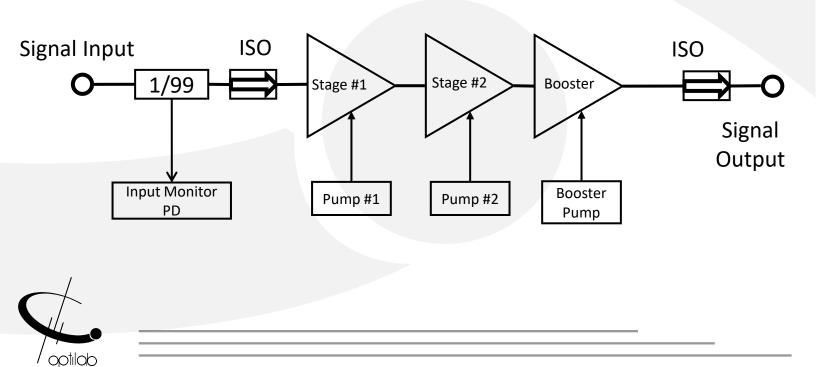
- FEATURES High SNR near saturation power
  - Saturation power Up to +40 dBm
  - Triple Staged Amplification

- 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



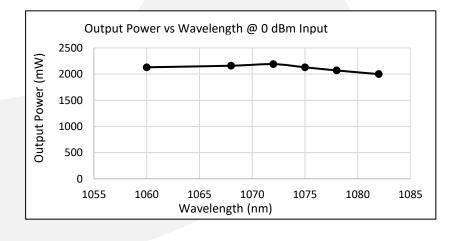
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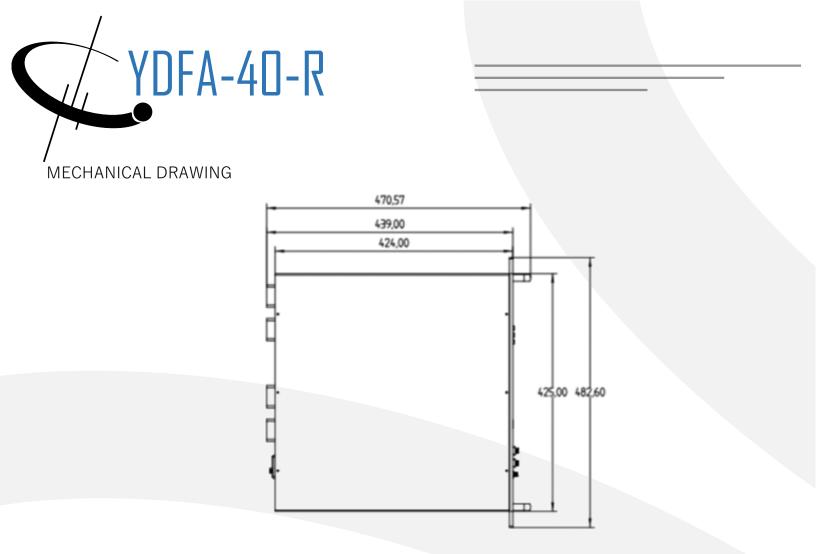
## SPECIFICATIONS

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	HI1060, High Power Connector or Collimator
	Optical Output fiber type	Passive-12/1250C (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.)







### 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



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