



DEVICE

Dual Stage Ytterbium Doped Fiber Amplifier, Rackmount

OVERVIEW

The Optilab YDFA-30-R is a high-gain dual pumped 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 +30 dBm.

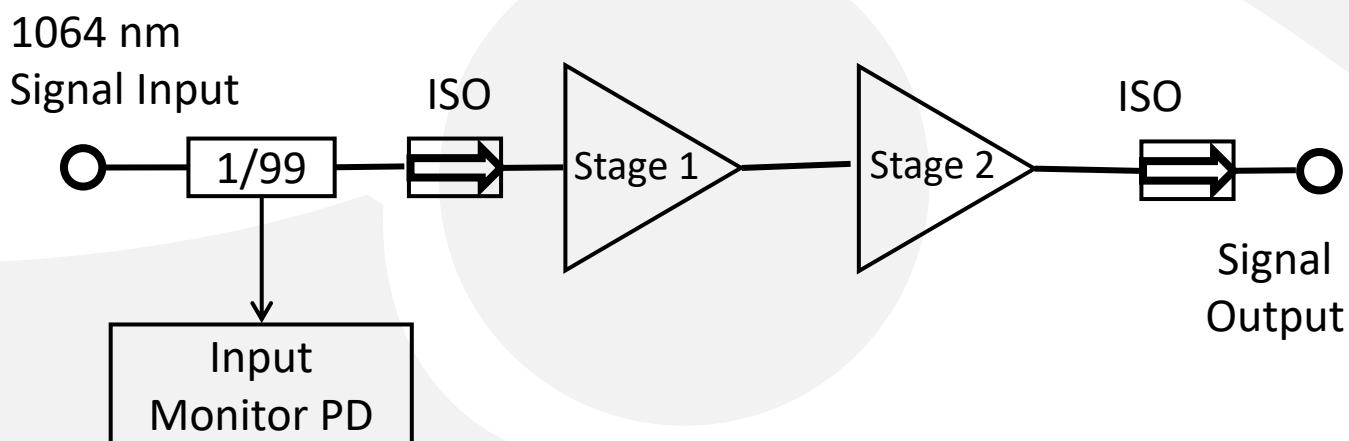
FEATURES

- 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



SPECIFICATIONS

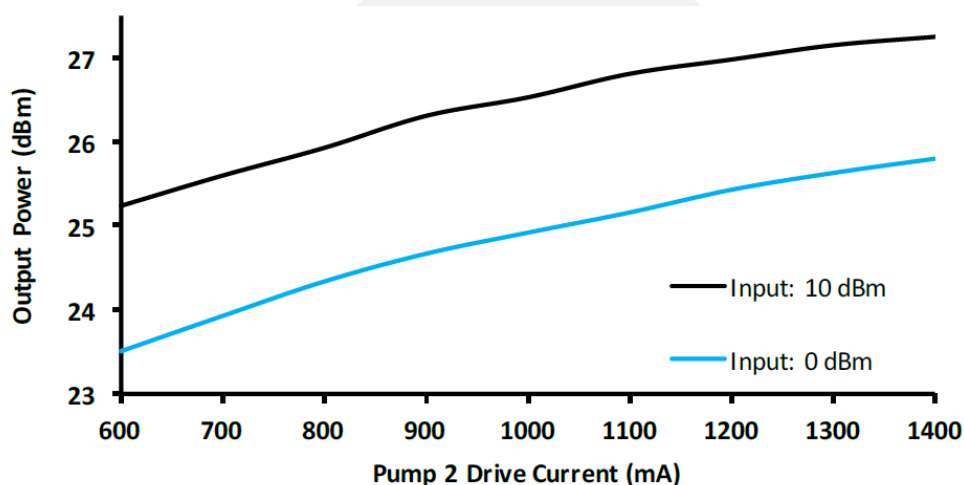
GENERAL

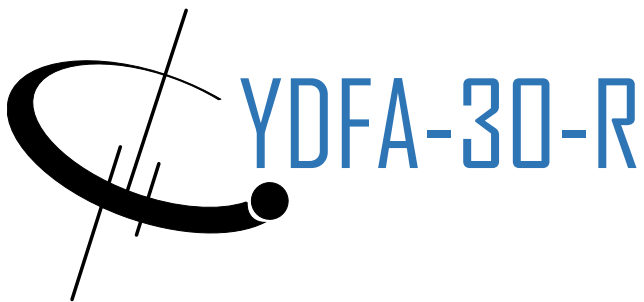
Wavelength Range	1050 nm to 1074 nm (Other Range Available upon Request)
Input Power Level	-10 dBm to 10 dBm
Output Power	Up to +30dBm
Input Isolation	>30 dB
Output Isolation	>30 dB
Gain	40 dB @ -10 dBm
Optical Input fiber type	HM060, FC/APC Connector
Control Mode	ACC
Remote Control interface	RS232 via USB

MECHANICAL

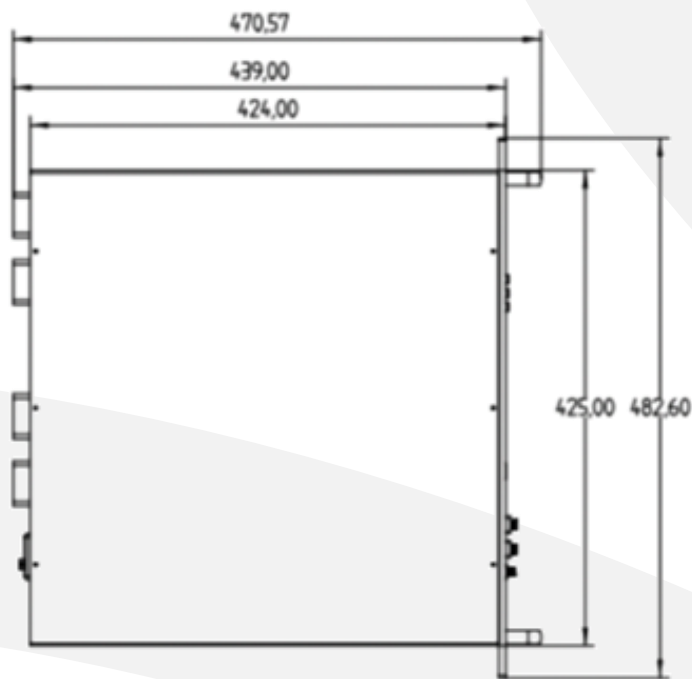
Operating temperature	+10°C to +30°C
Storage temperature	-10°C to +70°C
Power Supply	100 to 240 VAC
Control	Pump laser current, enable switch
Monitoring	Pump laser current, input power
Dimensions	1RU 482.60 (L) x 470.57 (W) x 44.00 (H) (mm)

SAMPLE TEST DATA





MECHANICAL DRAWING



ORDERING OPTIONS

YDFA-XX-R

XX Output Power Level: 25, 27, 30 dBm

RELATED RACKMOUNT

• YDFA-40-R



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

