YDFA-4X-R

DEVICE

High Power Ytterbium Doped Fiber Amplifier, +40 to +45 dBm

OVERVIEW

This product is a high power ytterbium doped fiber amplifier designed for applications requiring high efficiency optical amplification in the 1060 nm regime for CW operations. It consists of three-stage amplifiers, delivering over 35 dB gain and up to +45 dBm saturation power at 1060 nm. It is a self-contained, turn-key rackmount designed to supply high and stable gain across the specified range of the wavelength window.

FEATURES

- Up to +45 dBm Saturation Power
- Collimated Output
- Interlock safety feature
- High SNR
- Automatic protection systems

APPLICATIONS

- SHG Application
- Medical Equipment
- Industrial lasers
- Materials processing
- Laboratory

CUSTOMIZATION

- Various power levels
- Various output options
- See next page for ordering instructions

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SPECIFICATIONS

OPTICAL

Wavelength Range	1040 nm to 1075 nm
Input Power Level	+3 dBm to +13 dBm
Input Laser Linewidth	> 200 kHz
Saturation Output Power	+40 to 45 dBm
Optical Gain	32 dB @ +10 dBm input
Optical Return Loss	30 dB min.
Input / Output Optical Isolation	27 dB min.
Output Power Stability	0.2 dB over 8 hours
Optical Input fiber type	HI1060, FC/APC Connector
Optical Output	Collimated output with 6 to 8 mm beam diameter

MECHANICAL

Operating Temperature	+5 °C to +40 °C
Storage Temperature	-10 °C to +70 °C
Power Supply	100 to 240 VAC, 50 to 60 Hz
Control	Pump laser current, enable switch
Monitoring	Pump laser current, input power
Remote control	RS232 via USB port
Dimensions	3U rackmount

ORDER OPTIONS

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x: specifies output power (dBm)
Ie. , 40, 42, 45...

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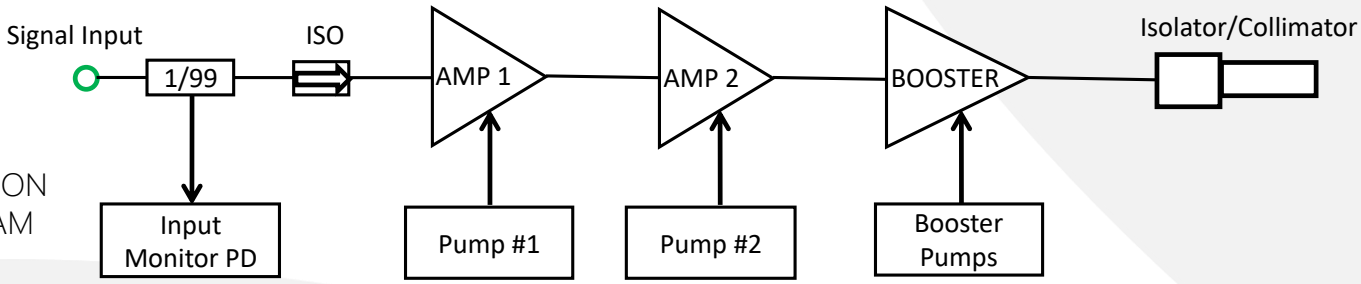
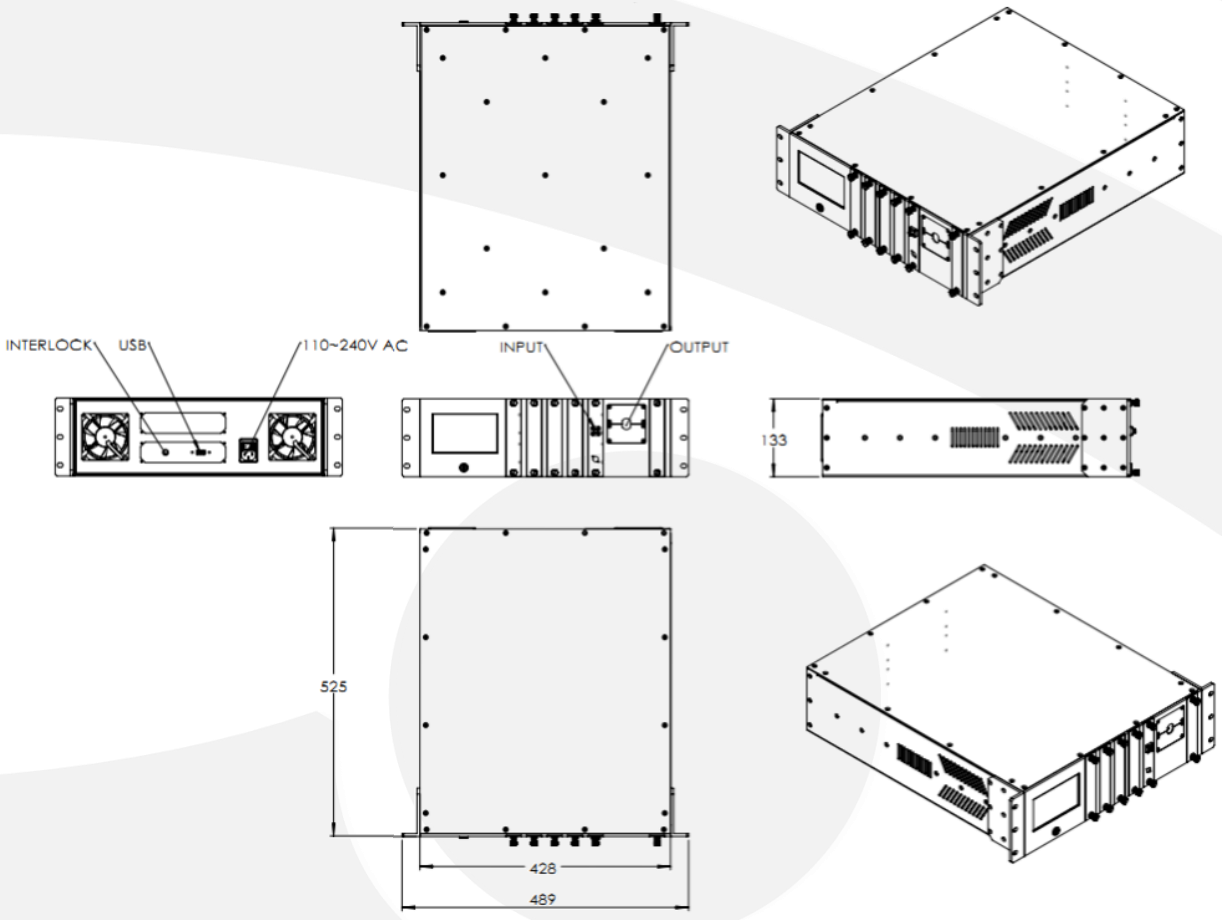
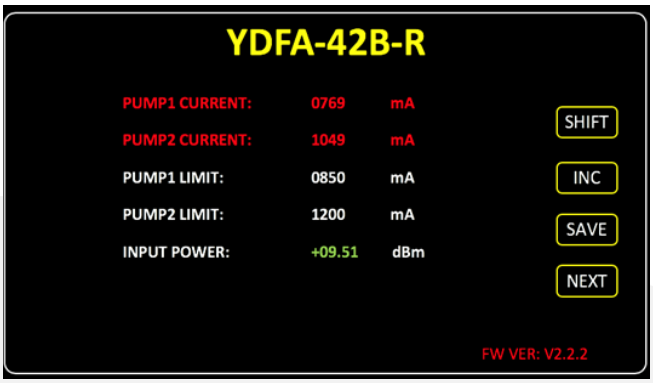
FUNCTION DIAGRAM

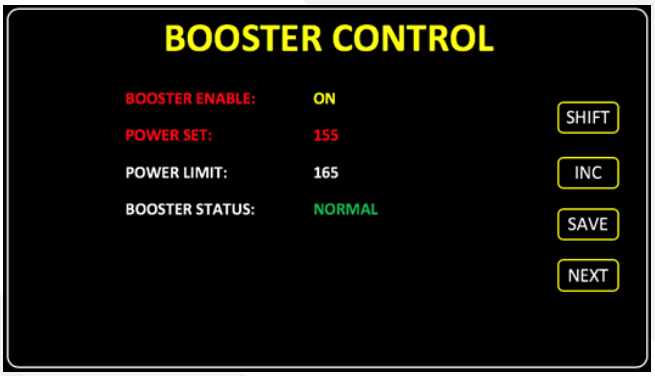


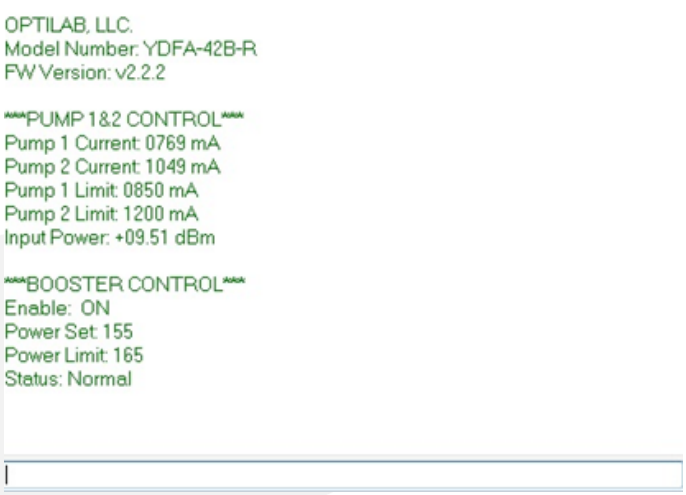
Mechanical Drawing



Touchscreen





SOFTWARE INTERFACES

RS232 Interface