

FA-xxL Series

HIGH POWER OPTICAL FIBER AMPLIFIERS

PriTel's FA-xxL Series of High Power Optical Fiber Amplifiers are based on well-established solid-state-pumped Erbium-Ytterbium co-doped optical fiber technology.

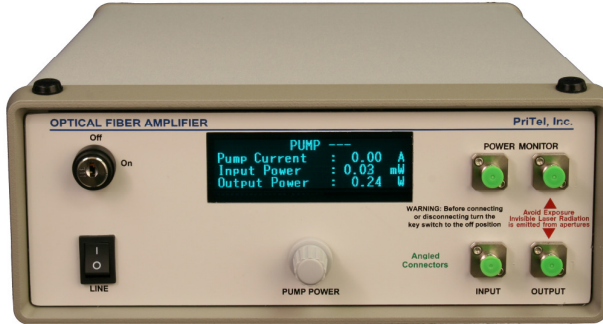
PriTel also manufactures amplifiers with excellent short-pulse performance. Certified shortpulse performance is available for PriTel SPFA High Power Optical Fiber Amplifiers for pulsewidths to 500 fs.

Higher power amplifiers are available on a custom basis.

Available options are: Input/Output power monitors, and communications interfaces (USB or RS-232 or Ethernet).



FA-xxL model without power monitor option



FA-xxL model with power monitor option

Specifications

	<u>FA-20L</u>	<u>FA-24L</u>	<u>FA-27L</u>	<u>FA-30L</u>
Saturated output power	20 dBm	24 dBm	27 dBm	30 dBm
Signal gain @ -10 dBm	> 23 dB	> 27 dB	> 25dB@0dBm	25dB @ 0 dBm
Optical noise figure @ 1590 nm	< 7 dB	< 8 dB	< 10 dB	< 12 dB
Polarization sensitivity	<0.2 dB	<0.2 dB	<0.2 dB	<0.2 dB
Input power range	-30 to +20 dBm	-10 to +20 dBm	-3 to +20 dBm	-3 to +24 dBm
Wavelength range	1570-1620 nm	1570-1620 nm	1570-1620 nm	1570-1620 nm
Spectral gain flatness (single channel input)	1 dB typical	1 dB typical	2 dB typical	2 dB typical
Minimum distortion-free pulse width (standard)	1.5 ps	1.5 ps	2 ps	2.0 ps
Dimensions	10 cm x 26 cm x 36 cm	10 cm x 26 cm x 36 cm	10 cm x 26 cm x 36 cm	15 cm x 26 cm x 36 cm
Optical				
Gain medium	Er/Yb-doped double-clad silica fiber			
Pump source	Diode laser (910-980 nm)			
Connectors	FC/APC (other connectors available upon request)			
Environmental				
Operating temperature	+15 to 30°C			
Storage temperature	-20 to 50°C			
Electrical/ Mechanical				
Operating Voltage	85-264 VAC at 47-63 Hz			
Power consumption	<125 W			

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