

# FA Series

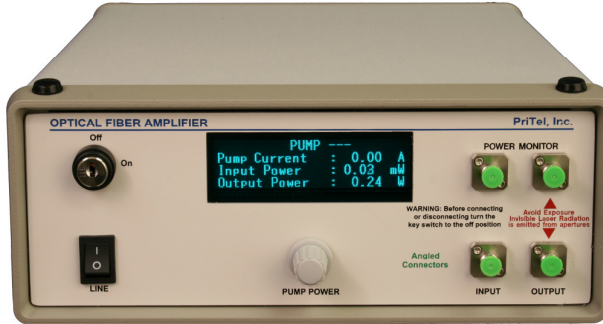
## HIGH POWER OPTICAL FIBER AMPLIFIERS

PriTel's FA 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.

*FA-xx model without power monitor option*



*FA-xx model with power monitor option*

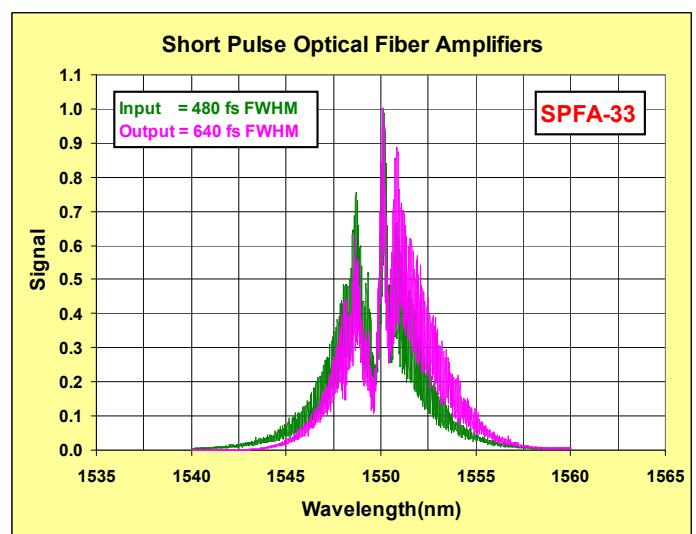
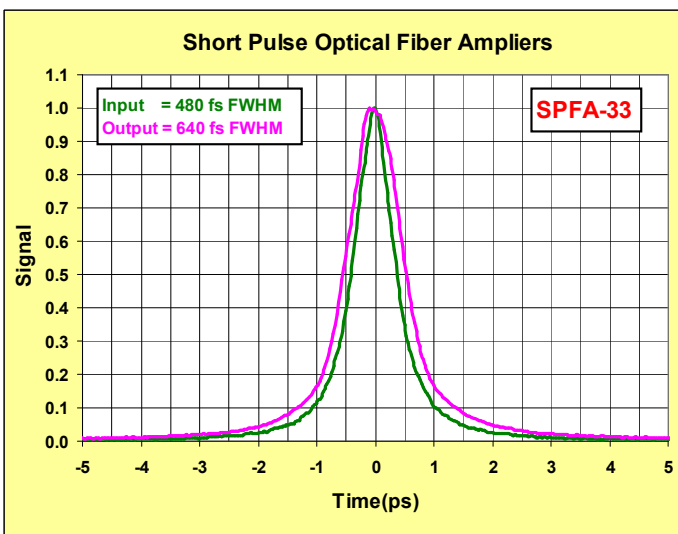
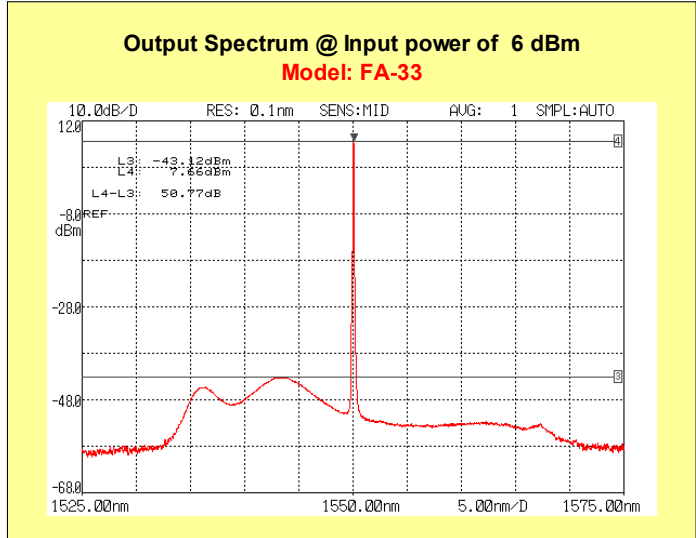
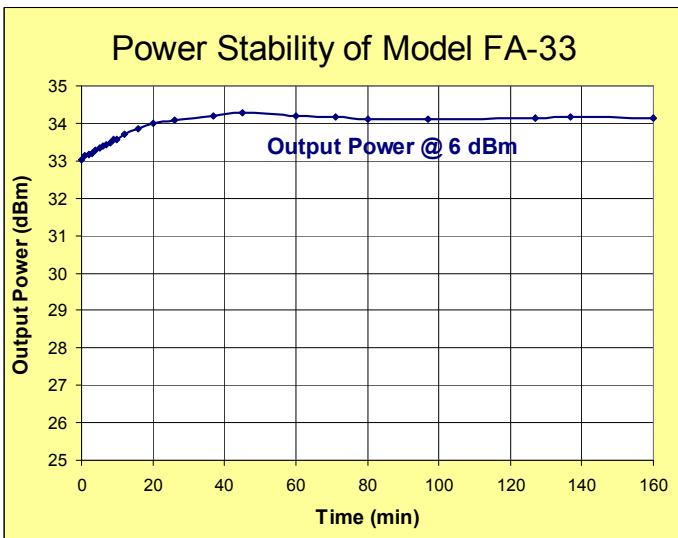
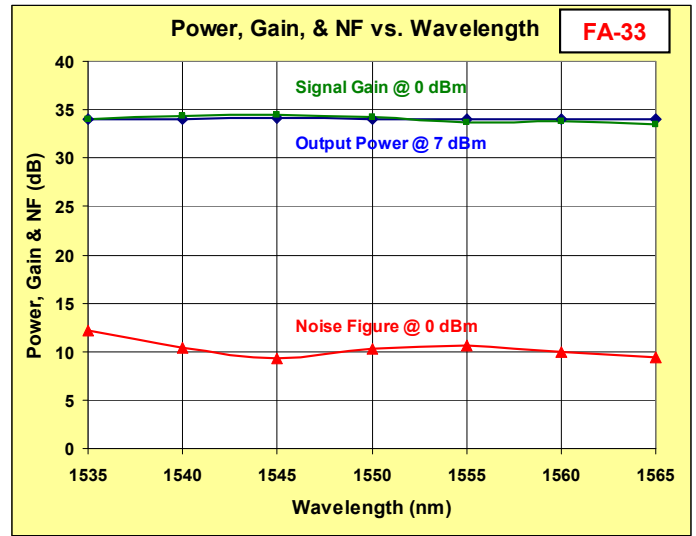
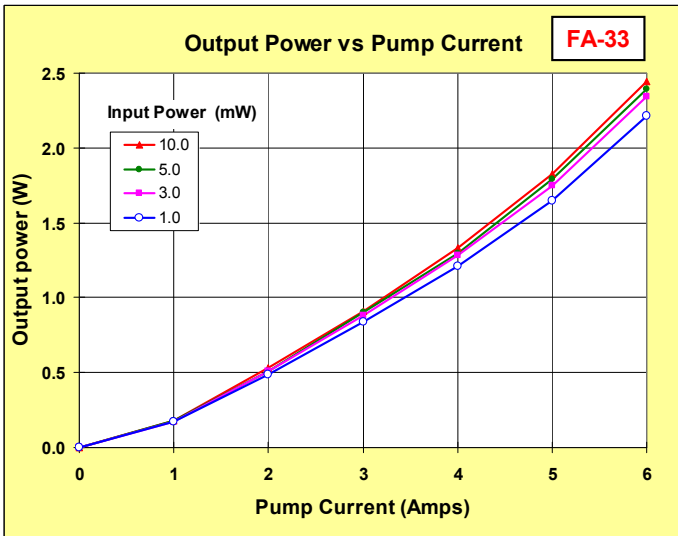
### Specifications

	<b>FA-27</b>	<b>FA-30</b>	<b>FA-33</b>	<b>FA-37</b>
Saturated output power	27 dBm	30 dBm	33 dBm	37 dBm
Signal gain @ 0 dBm	> 27 dB	> 30 dB	> 33 dB	25dB @ 12dBm
Optical noise figure @ 0 dBm	< 8 dB	< 10 dB	< 12 dB	< 14 dB
Polarization sensitivity	<0.2 dB	<0.2 dB	<0.2 dB	<0.2 dB
Input power range	-10 to +20 dBm	-10 to +20 dBm	-10 to +20 dBm	+17 to +24 dBm
Wavelength range	1535-1565 nm	1535-1565 nm	1535-1565 nm	1535-1565 nm
Spectral gain flatness (single channel input)	0.5 dB typical	0.5 dB typical	1.0 dB typical	1.0 dB typical
Minimum distortion-free pulse width (standard)	1.5 ps	1.5 ps	1.5 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
<b>Optical</b>				
Gain medium	Er/Yb-doped double-clad silica fiber			
Pump source	Diode laser (910-980 nm)			
Connectors	FC/APC (other connectors available upon request)			
<b>Environmental</b>				
Operating temperature	+15 to 30°C			
Storage temperature	-20 to 50°C			
<b>Electrical/ Mechanical</b>				
Operating Voltage	85-264 VAC at 47-63 Hz			
Power consumption	<125 W			



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# Typical Performance of High Power Optical Fiber Amplifiers



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