

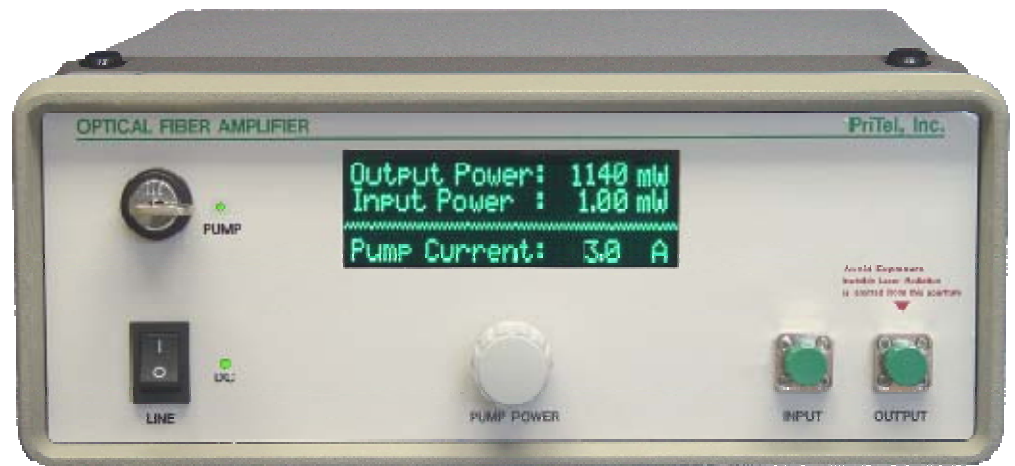
## FA Series

# 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 700 fs.

Higher power amplifiers are available on a custom basis.



*Shown with power monitor option*

## Specifications

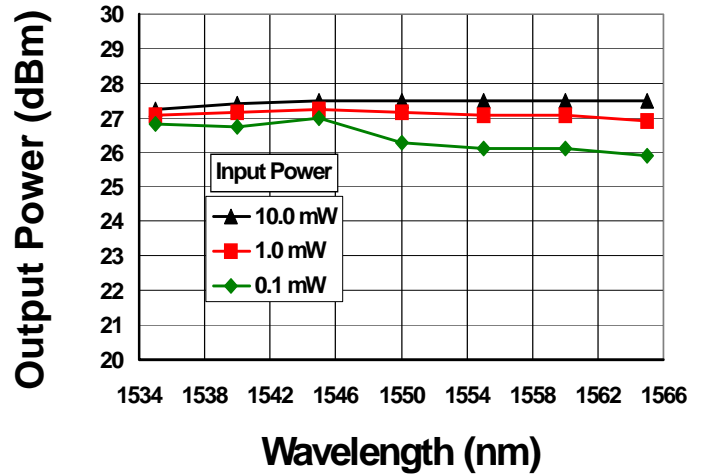
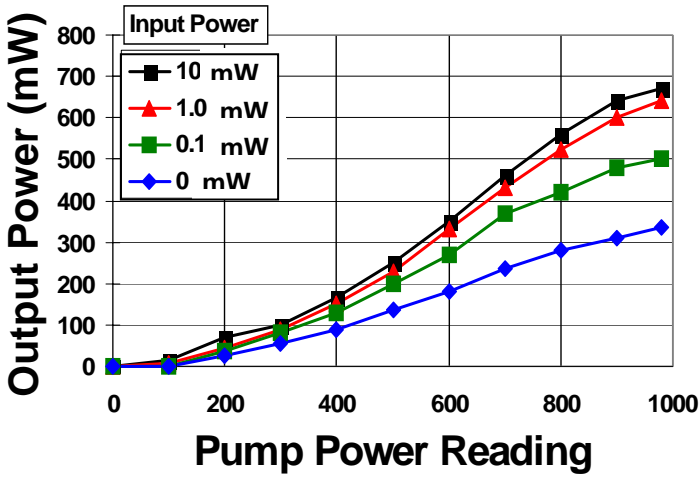
	<b>FA-27</b>	<b>FA-30</b>	<b>FA-33</b>	<b>FA-37</b>
Saturated output power	27 dBm	30 dBm	33 dBm	37 dBm
Small signal gain	>35 dB	>35 dB	>40 dB	>40 dB
Optical noise figure	<8 dB	<8 dB	<10 dB	<10 dB
Polarization sensitivity	<0.2 dB	<0.2 dB	<0.2 dB	<0.2 dB
Input power range	-15 to +10 dBm	-10 to +10 dBm	0.0 to +10 dBm	0.0 to +10 dBm
Wavelength range	1535-1565 nm	1535-1565 nm	1535-1565 nm	1545-1565 nm
Spectral gain flatness (single channel input)	0.5 dB typical	0.5 dB typical	0.5 dB typical	0.5 dB typical
Minimum distortion-free pulsewidth (standard)	1.5 ps	1.5 ps	1.5 ps	1.5 ps
Dimensions	10 cm x 26 cm x 28 cm	15 cm x 26 cm x 28 cm	15 cm x 26 cm x 28 cm	15 cm x 26 cm x 28 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			



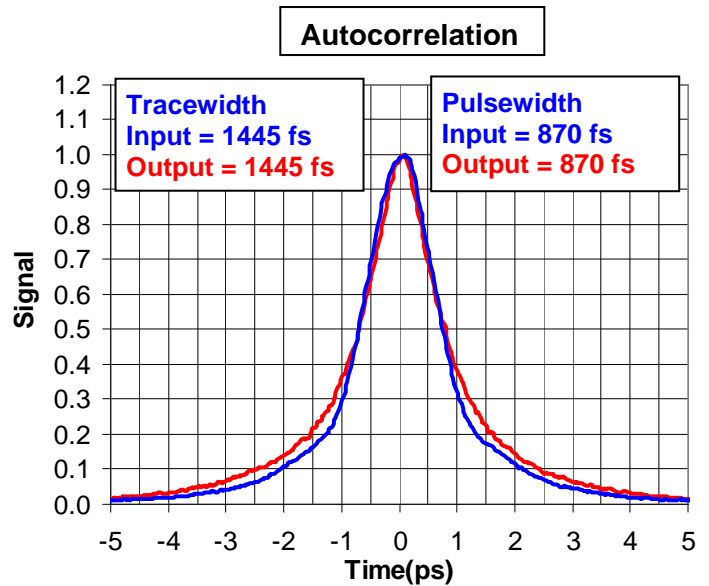
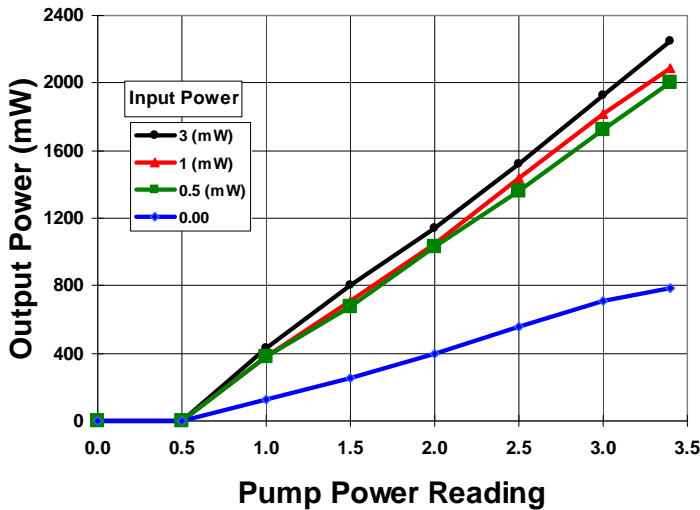
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## Typical Performance of PriTel's High Power Optical Fiber Amplifier Model FA-27



## Typical Performance of PriTel's High Power Optical Fiber Amplifier Model FA-33



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