

HPP-PMFA Series

HIGH PEAK POWER, POLRIZATION MAINTAINING OPTICAL FIBER AMPLIFIERS

PriTel's HPP-PMFA Series of Polarization Maintaining, High Peak Power Optical Fiber Amplifiers are ideal for R&D applications involving optical nonlinear effects and eye-safe range-finding.

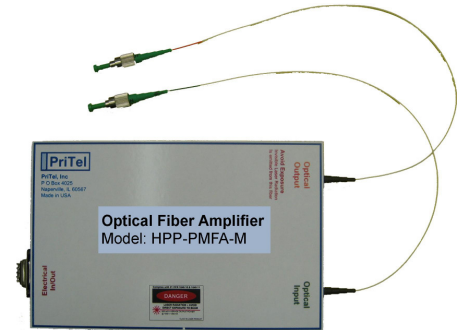
High peak powers of >20 kW in free space and >10 KW fiber pigtailed are achieved in the PM-HPPFA Series by using custom fabricated PM-Er doped gain fibers.



HPP-PMFA-xx model with free space output



HPP-PMFA-xx Module



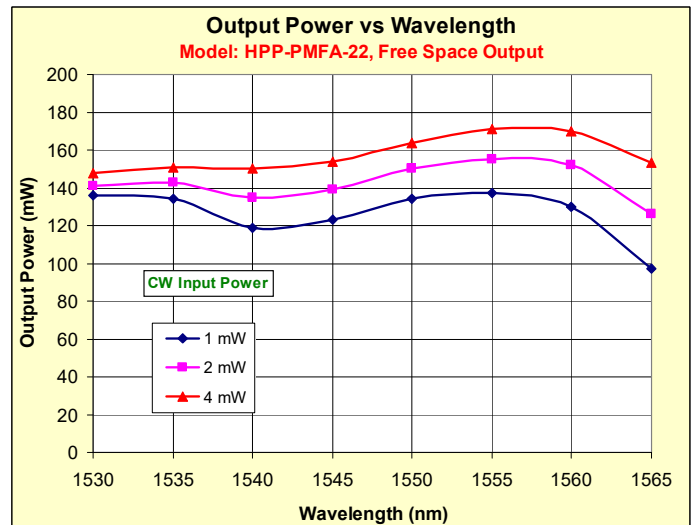
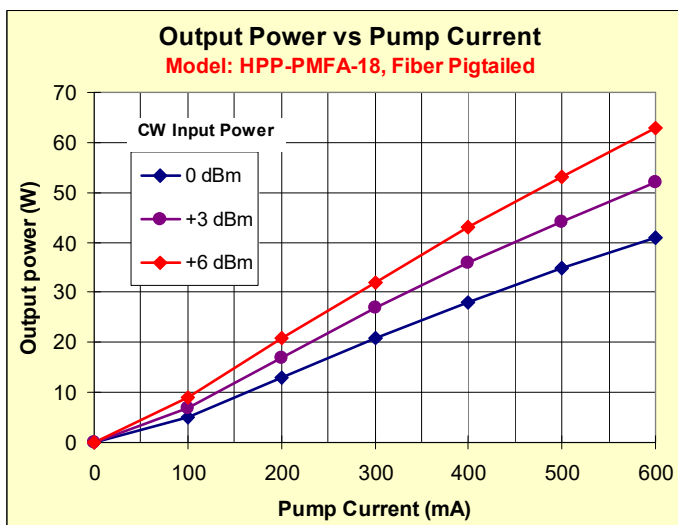
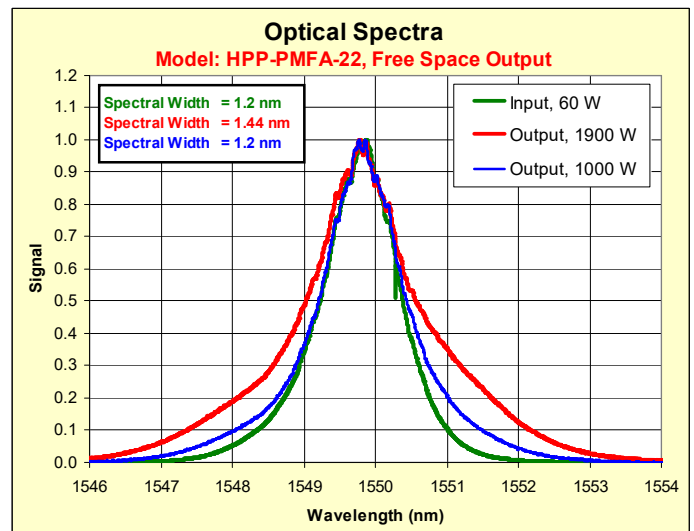
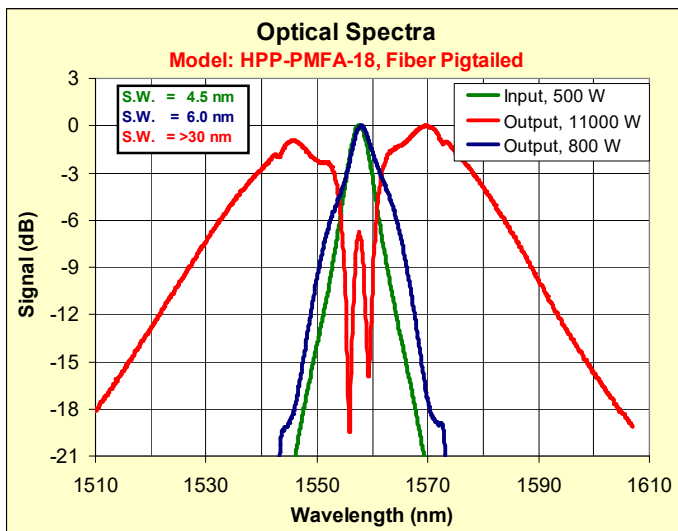
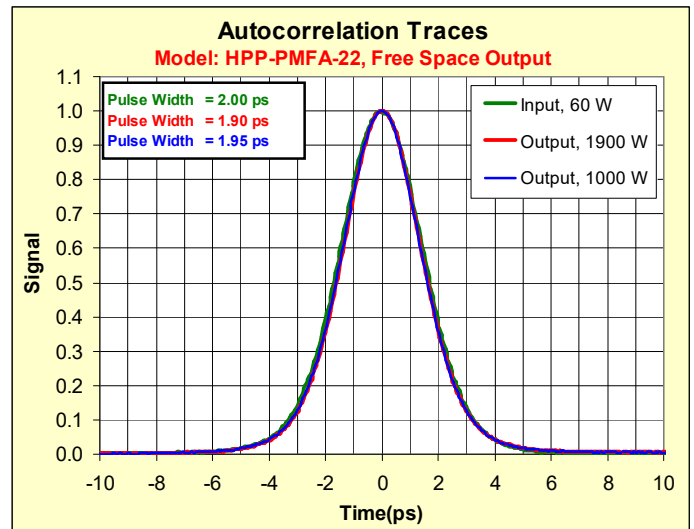
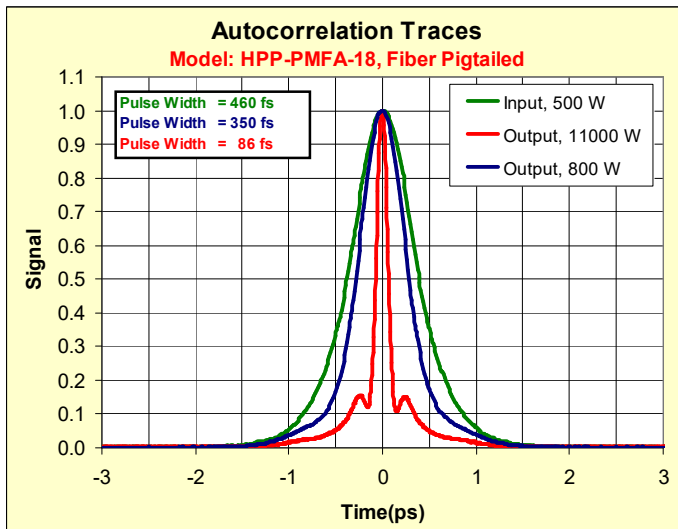
Specifications

Model	HPP-PMFA-18	HPP-PMFA-22
Saturated output power	> 18 dBm	> 22 dBm
Peak Power (before pulse breakup) , Fiber	> 10,000 W	>10,000 W
Peak Power (before pulse breakup) , Free Space	> 20,000 W	>20,000 W
Peak Power (with minimal SPM), Fiber	> 1,000 W	> 1,000 W
Peak Power (with minimal SPM), Free Space	> 2,000 W	>2,000 W
Small signal gain, Adjustable	0 to > 27 dB	0 to > 30 dB
Optical noise figure	< 2.0 dB	< 3.5 dB
Input power range	None to +13 dBm	
Wavelength range	1527–1560 nm	
Dimensions	10 cm x 26 cm x 28 cm	
Optical		
Gain medium	Er doped silica fiber	
Pump source	Diode laser	
Input	PM=FC/APC (single mode fiber, isolated)	
Output	PM=FC/APC or Free space with Isolation	
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	< 50 W	



PriTel, Inc.
 P.O. Box 4025,
 Naperville, IL 60567-4025, USA
 Ph: +1630-983-2200, Fx: +1630-983-2260
 E-mail: PriTel@PriTel.com
 , Internet: www.PriTel.com

Typical Performance of High Peak Power, Polarization Maintaining Optical Fiber Amplifiers



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PriTel, Inc.
P.O. Box 4025, Naperville, IL 60567-4025, USA
Ph: 630-983-2200, Fx: 630-983-2260 (USA)
E-mail: PriTel@PriTel.com, Internet: www.PriTel.com