

HPPFA Series

HIGH PEAK
POWER
OPTICAL
FIBER
AMPLIFIERS

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

High peak powers —
>10 kW in free space
are achieved in the HPPFA Series by using large-core gain fibers.

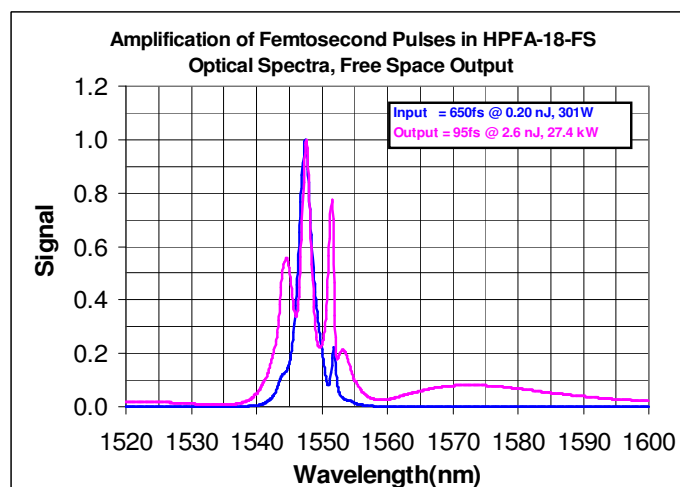
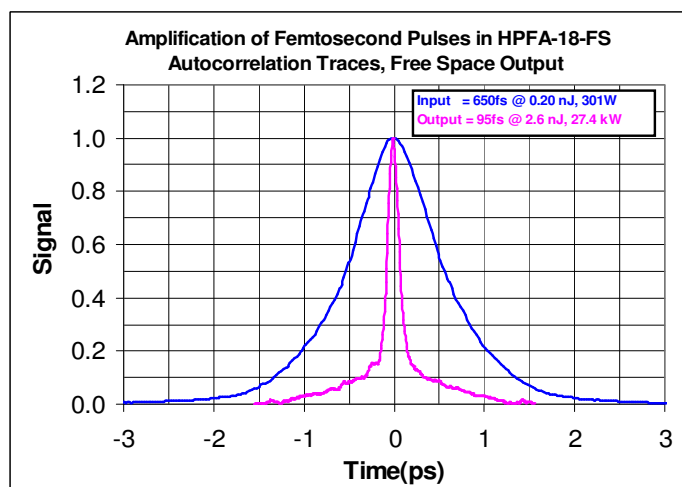
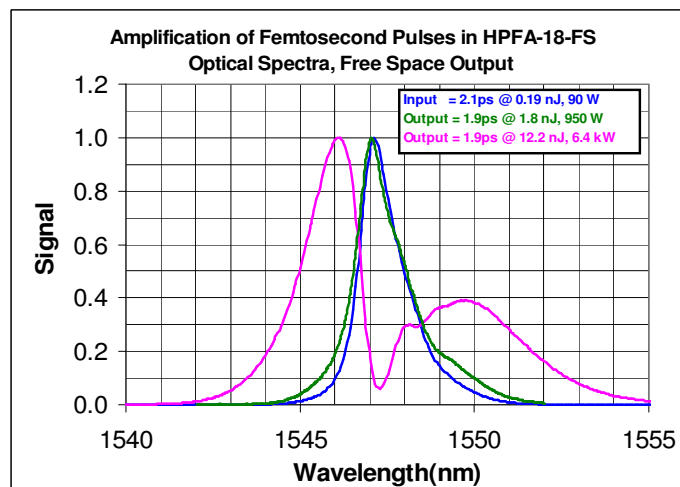
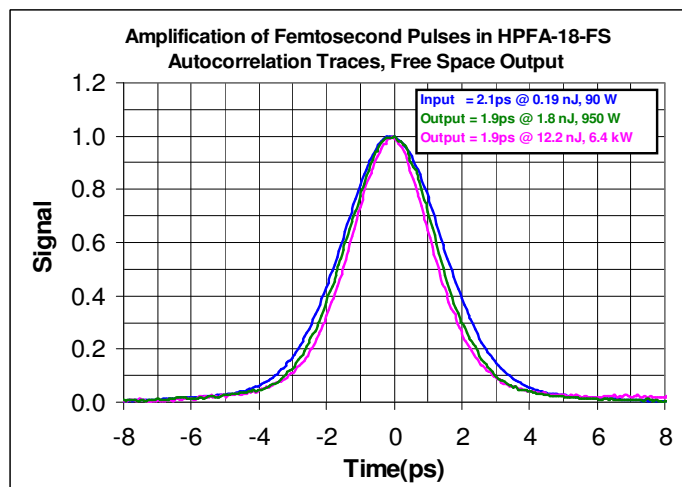


Specifications

Model	HPPFA-XX	
Saturated output power	18 dBm for HPPFA-18 20 dBm for HPPFA-20	
Peak Power (before pulse breakup)	>10,000 W into free space output	>5,000 W Fiber coupled output
Peak Power (Minimal SPM)	> 2,000 W into free space output	>1,000 W Fiber coupled output
Small signal gain	>27 dB	
Optical noise figure	< 6 dB	
Input power range	-20 to +13 dBm	
Wavelength range	1527–1560 nm	
Polarization sensitivity	< 0.3 dB	
Dimensions	10 cm x 26 cm x 28 cm	
Optical		
Gain medium	Er co-doped silica fiber	
Pump source	Diode laser	
Input	FC/APC (single mode fiber, isolated)	
Output	Free space, no isolation	SMF-28 fiber, with output isolator
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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Typical Amplification of Femtosecond Pulses in HPPFA-18-FS



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