

Features

- * Average power up to 10W
- * High peak power up to 20kW
- * All-fiber design, industrial reliability
- * Maintenance free
- * Random or linear polarization
- * RS-232 interface for local supervision

Applications

- * Material processing
- * Semiconductor inspection
- * Harmonic generation
- * OPO pumping
- * Pump-probe
- * Supercontinuum generation

Description

GIP Technology Femtosecond Erbium Fiber Amplifier Unit (AMP-EFA-FS-HP-U) is the 1.5 μ m band pulsed fiber amplifier, delivering high average power (up to 10W), and high peak power per pulse (up to 20kW) in standalone or compact modules size for a wide range of applications

The AMP-EFA-FS-HP-U provides a variety of models that can operate under various operating conditions, such as pulse



duration, pulse repetition frequency and energy, suitable for airborne 3D scanning and mapping, telemetry, harmonic, development (R&D) environments, material processing and supercontinuum generation applications

The AMP-EFA-FS-HP-U does not need water cooling or replacement parts, only 110/220V AC power supply is needed to obtain high energy and high peak power pulsed laser.

In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS232).



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Specifications

Optical Information		Unit	Description		
Saturated output power*1	Max.	Watt	2	4	10
Mode of operation			Pulsed		
Center wavelength*2		nm	1550±10		
Input average power		μW	10 ~ 30		
Input pulse duration*3		ps	0.3 ~ 50		
Pulse repetition rate*4		MHz	10 ~ 100		
Peak power	Max.	kW	5	10	20
Beam quality	Max.	M ²	1.3		
Polarization			Random or Linear		
Polarization extinction ratio*4	Min.	dB	17		
Power tunability		%	10 ~ 100		
Output fiber length	Min.	M	0.5		
Termination			FC/APC or Collimator		
Electrical Information					
Operating voltage		Volt	100 ~ 240VAC, 50/60Hz		
Control mode			ACC or APC		
Control interface			RS-232		
Pulse timing			External trigger, TTL		
Environmental Information					
Operating ambient temperature		°C	15 ~ 35		
Storage temperature		°C	0 ~ 60		
Relative humidity (non-condense)		%	5 ~ 85 (operating)		
Cooling			Air cooling		
Mechanical Information					
Dimensions (W x L x H)		mm	Benchtop	19" 2U	19" 3U

*1. Higher average power on request.

*2. Other wavelength on request

*3. Lower and higher repetition rate operation on request.

*4. For PM version only.