

# Ytterbium Fiber Amplifier

## YFA series

2006-10-25 - v1.0

Applications: Instrument for R&D labs  
Form factor: Benchtop 19" Rackable  
product reference: KPS-STD-BT-YFA-50-xxx-yy-zz



### Optical Specifications:

	Conditions	Unit	YFA-10	YFA-20	YFA-50	YFA-100	YFA-150	YFA-200
Mode of operation			CW					
Nominal output power	Pin = +5dBm	W	1	2	5	10	15	20
Input power		dBm	From +5 to +15					
Bandwidth		nm	1050-1080					
Input/Interstage isolation			Yes					
Output isolation			Option	No				
Input monitoring			Yes					
Output monitoring			No					
Control Mode			ACC					
APC Pw. Tunability			-					
APC Pw. Stability			-					
M <sup>2</sup>	LP01		max: 1.1					

### Optical Interface:

	YFA-10	YFA-20	YFA-50	YFA-100	YFA-150	YFA-200
Output termination options	FA, Col, B	Col, B				
Output pigtail	SM, 6/130, NA 0.11, 3mm, PVC, 1m					
Input termination options	FA					
Input pigtail	SM, 6/130, NA 0.11, 3mm, PVC, 1m					
External fiber restriction	-	No connexion				
Backreflection	Limited					
Injected linewidth	Limited					

### Electrical, Environmental and Packaging:

		Unit	BT
Electrical Specification:			
	AC Voltage	V	85 to 264 VAC, 47-63Hz
	Power Consumption	W	<400
	Interface		RS232 and GPIB
Environmental			
	Operating Temperature	°C	From 15 to 35
	Storage Temperature	°C	From -20 to 55
	Warm up time	min	<30
Dimension and Weight			
	Dimensions Laser module	mm	88x448x446
	Weight	Kg	<5

### Options available:

- xxx = IN monitoring, ISO,OUT monitoring options (see specifications)
- yy = input termination option
- zz = output termination option

#### Connectors:

FA=FC/APC; SA=SC/APC; FP=FC/SPC; SP=SC/SPC  
E2PS=E2000 HP + Patchcord for adaptation  
Col=Collimated, for free-space use; B=Bare Fiber

All products comply with IEC 60825-1 and FDA (21 CFR Subchapter J) laser safety standards.

Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to the highest technical standards. As a result, the specifications in this document are subject to change without notice.



**HEADQUARTERS**  
KEOPSYS SA.  
21 rue Louis de Broglie  
22300 Lannion, France  
Tel: +33 2 9605 0800  
Fax: +33 2 9605 0801

**US OPERATIONS**  
KEOPSYS Inc.  
16 White Bridge Road  
Pittstown, NJ 08867, USA  
Tel: +1 (908) 238-0898  
Fax: +1 (908) 238-9178

[websales@keopsys.com](mailto:websales@keopsys.com)  
[www.keopsys.com](http://www.keopsys.com)

**KEOPSYS**  
KEY OPTICAL SYSTEMS