

Ytterbium-doped Fiber Amplifier for 1.0um

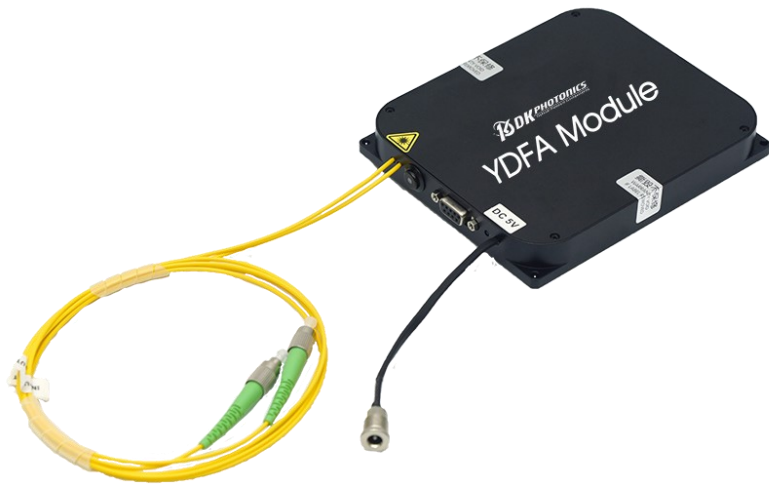
Key Features

- Wide wavelength range
- High Output power
- High Gain

Ytterbium-doped fiber amplifier (YDFA) generates gain by pumping ytterbium-doped fiber with a semiconductor laser to amplify laser signals in the 1030~1100nm band, Hi1060 single-mode fiber or PM980 polarization-maintaining fiber output, the output power is continuously adjustable, with high gain and low noise. The advantages of noise. The desktop YDFA is convenient for experimental operation, and the user can adjust the pump current and output power through the buttons on the front panel. It also provides a more compact modular YDFA, which is convenient for users' system integration. Both desktop YDFA and modular YDFA can support host computer software control and serial command control.

Applications

- Fiber Communications
- Fiber Lasers
- Fiber Sensors



For more Info

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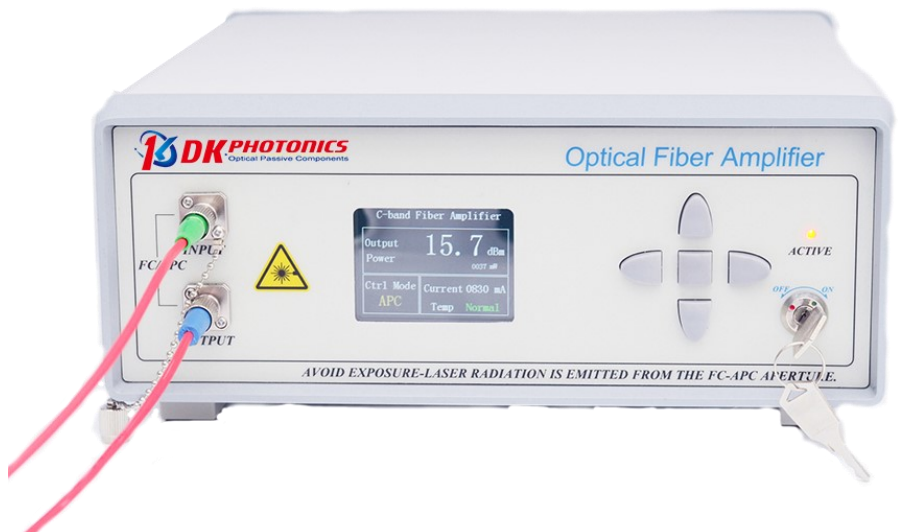
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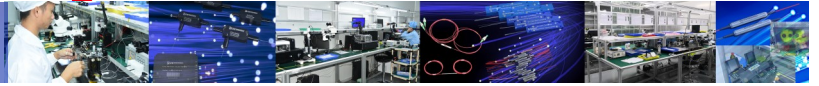
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Performance Specifications Ytterbium-doped Fiber Amplifier for 1.0um

Optical Parameter	Unit	Typical Values	Remark
Wavelength Range	nm	1030~1100nm	
Input Power	dBm	0~+10	Customizable
Saturated output power	dBm	17/20/23/25/26/27/30/33	
Noise Figure	dB	5.0	
Gain Flatness	dB	3	
Polarization Dependent Gain	dB	<0.3	
Polarization Mode Dispersion	ps	0.5	
Input/output Isolation	dB	>30	
Fiber Type	-	HI1060 or PM980 panda	1.0m length
Optical Connector	-	FC/APC	
Control Mode	-	Automatic current control (ACC) / Automatic power control (APC)	*Note 1

Electrical and environmental parameters	Desktop	Module
Control Mode	Button	RS232
Communication Interface	* Optional	DB9 Female
Power Supply	100~240V AC, <30W	5V DC, <15W
Dimensions	260(W)×280(D)×120(H)mm	125(W)×150(D)×20(H)mm
Operation Temperature Range	-5~+55°C	
Operation Humidity Range	0~70%	

Note 1:

- ACC mode-automatic current control: the EDFA pump working current is set by the user and automatically locked by the EDFA to achieve a constant pump current. When the input optical power fluctuates, the output power will also fluctuate accordingly, which is applicable to all EDFA models.
- APC mode-automatic power control: the user sets the signal light output power of the EDFA, PD automatically monitors and feeds back the output power, EDFA control and self-adaptive adjustment of the pump to achieve the stability of the output signal. The advantage of the APC mode is that when the input optical power fluctuates, the EDFA will reduce the output power fluctuation as much as possible, and it is suitable for power and line EDFAs.

Order information P/N: ①-②-③-④

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better.

①	②	③	④
YDFA	Output power(dBm)	Fiber Type	Package Type
	17/20/23/25/26/27/30/33	SM: HI1060 SM fiber PM: PM980 Panda fiber	M: Module B: Desktop

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.