

## Ytterbium-doped Fiber Amplifier

### 1. Description:

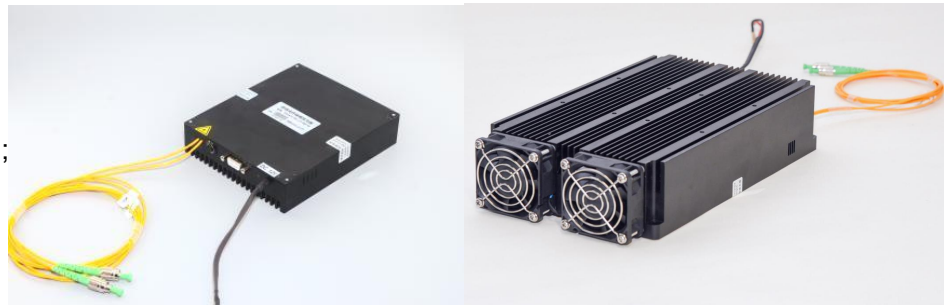
The Ytterbium doped fiber amplifier (YDFA) generates gain by pumping ytterbium doped fiber with semiconductor laser, which is used to amplify 1030~1100nm laser signal. Hi1060 single-mode fiber or pm980 polarization maintaining fiber output, the output power is continuously adjustable, The benchtop YDFA is easy to operate, and the user can adjust the pump current and output power through the front panel buttons. we provides a more compact modular YDFA to facilitate system integration.

### 2. Features:

- Wide wavelength range;
- High output power and high gain;
- Low noise figure.

### 3. Applications:

- Optical fiber communication;
- Optical fiber sensing;
- Fiber laser.



### 4. Electro-Optical Characteristics:

Parameters		Unit	Values		Notes
Operating wavelength		nm	1030~1100		
Fiber type		-	SM Version	PM Version	
Input power		dBm	0~10		Customized
Saturated output power		dBm	17/20/23/25/26/27/30/33/37/40		
Noise figure		dB	5.0		
Polarization dependent gain		dB	<0.3		
Polarization extinction ratio		dB		20	
Input/Output isolation		dB	>35		
Fiber type		-	Hi1060 Fiber	PM980 Fiber	
Connector		-	FC/APC		
Operating mode		-	ACC/APC		
Dimensions	17~27dBm	mm	260(W)×280(D)×120(H)		Benchtop
			125(W)×150(D)×30(H)		Module
	30~40dBm		360(W)×350(D)×120(H)		Benchtop
			139(W)×235(D)×70(H)		Module
Power supply		V	AC 110~240V, <30W@25°C		Benchtop
			5V DC, <15W		Module

Control mode	-	Button	Benchtop
		RS232 Serial communication	Module
Communication Interface	-	DB9 Female	Module
Operating temperature	°C	-5~ +55	
Operating humidity range	%	0~70	

**5. Ordering information:**

YDFA	Output power	Fiber type	Dimension
YDFA	-XX	XX	-X
Ytterbium-doped Fiber Amplifier	17: 17dBm 23: 23dBm 30: 30dBm 33: 33dBm	SM: Hi1060 SM fiber PM: PM980 fiber	M: Module B: Benchtop