

Ytterbium-doped Fiber Amplifier

Ytterbium-doped fiber amplifier (YDFA) generates gain by pumping ytterbium-doped fiber with a semiconductor laser, used 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 the advantage 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. A more compact modular YDFA is also available, which is convenient for users' system integration. Both desktop YDFA and modular YDFA can support PC software control and serial command control.

Characteristics

- Wide Wavelength Range
- High Power
- Low Noise

Applications

- Industrial Lasers
- Fiber Sensing
- Fiber Laser



Desktop Model



OEM Model

Optical Parameters	Unit	Typical Value	
		SM	PM
Operating Wavelength	nm	1030~1100	
Input Signal Power	dBm	0~10	
Saturation Output Power	dBm	17/20/23/25/26/27/30/33/37/40@0dBm input	
Noise Figure	dB	5.0	
Polarization dependent Gain	dB	<0.3	-
Polarization Extinction Ratio	dB	-	20
Input/output Isolation	dB	>35	
Optical Power Monitoring	-	Output Power	
Optical Fiber	-	Hi 1060	PM980
Fiber connectors	-	FC/APC	
Control mode	-	ACC/APC	

General Parameters		Desktop	Module
Control Function		Keystroke	RS232 serial Communication
Remote control Port		Optional	DB9 Female
Power Supply		AC100~240V, <30W	DC5V, <15W
Size	17~27dBm	260(W)×320(D)×120(H)mm	125(W)×150(D)×30(H)mm
	30~40dBm	360(W)×350(D)×120(H)mm	139(W)×235(D)×70(H)mm
Operation Temperature		-5~+35°C	
Operation Humidity		0~70%	



Ordering Information/ Product Code			
YDFA	Saturation Output Power(dBm)	Fiber	Packaging
	17/20/23/25/26/27/30/33/37/40	SM= HI 1060 PM= PM 980	M=module B=Desktop

Singapore Main Office
Telephone: +65 6996 0391
Email: info@simtrum.com

China Main Office
Telephone: +86 15000853620
Email: sales@simtrum.cn


www.simtrum.com