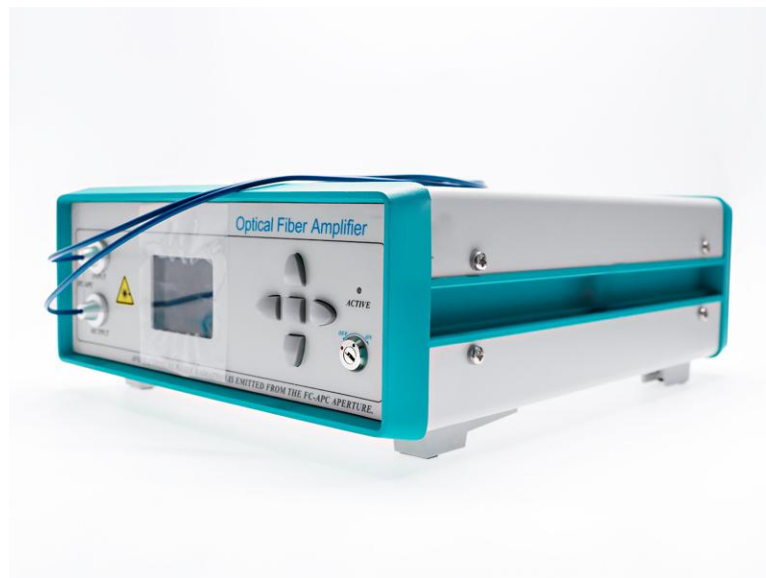


C-band benchtop SM Erbium-Ytterbium co-doped fiber amplifier 33dBm



● Product Description

The C-band high power polarization-maintaining erbium-doped fiber amplifier is based on the principle of stimulated laser amplification of optical signals in erbium-doped fiber. It employs a unique multi-stage optical amplification design and reliable high-power laser heat dissipation technology to achieve high-power polarization-maintaining output for lasers with wavelengths ranging from 1535 to 1565 nm. It offers advantages of high power, high extinction ratio, and low noise, making it suitable for applications in fiber optic communication, lidar, and more.



● Product features

High output power (up to 10 watts) 、 High gain coefficient 、 High polarization extinction ratio.

● Part Number

MP-EYDFA-C-2W-SM

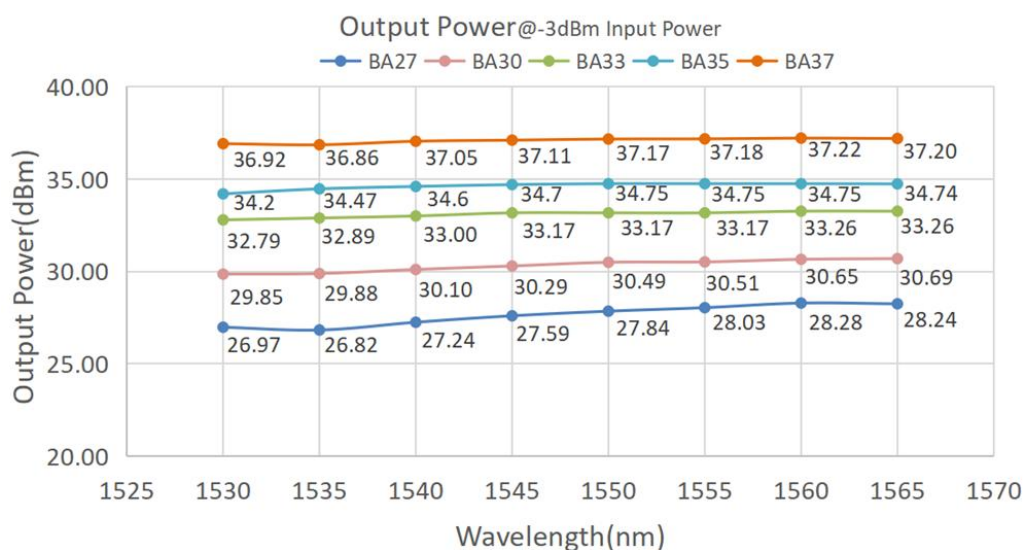
● Application area

Fiber Optic Communication、 Fiber Optic Sensing、 LiDAR

● Core parameters

Wavelength Range	Saturated Output Power	Connector
1535-1565nm	33dBm	FC/APC

● General Parameters





Technical Parameters

Wavelength Range	nm	1535~1565	Other wavelengths can be customized
Input Power	dBm	-6~+10	
Saturated Output Power	dBm	27/30/33/35/37/40	@-3dBm input
Adjustable Output Power Range	-	10%~100%	
Noise Figure	dB	<6.0	
Gain flatness	dB	≤1	@Different wavelengths are magnified separately
Polarization-Dependent Gain	dB	<0.5	
Polarization Mode Dispersion	ps	0.5	
Input/Output port isolation	dB	>35	
Optical Power Monitoring	-	Input optical power monitoring, output	



		optical power monitoring	
Pigtail Type	-	SMF-28	
Pigtail Connector Type	-	FC/APC	For power testing only
Operating Mode		Automatic Current Control (ACC) / Automatic Power Control (APC)	

Electrical and Environmental Parameters		Benchtop	Module
Control Mode		Keypad	RS232 Serial Communication
Communication Interface		Optional	DB9 Female
Power Supply		100~240VAC,<150W	12V DC,<60W
Dimensions	power 27/30/33 dBm	260(W) × 320(D) × 120(H)mm	125(W) × 150(D) × 30(H)mm
	power 35/37/40 dBm	360(W) × 350(D) × 120(H)mm	139(W) × 235(D) × 70(H)mm
Operating Temperature Range		-5~+35°C	



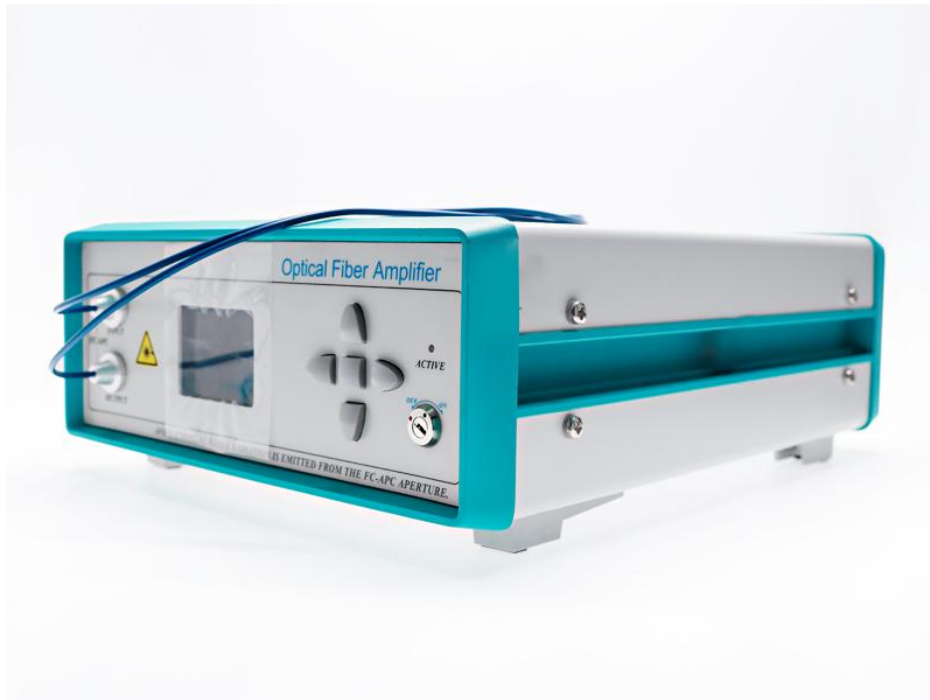
Operating Humidity Range	0~70%
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PN#/Ordering Info

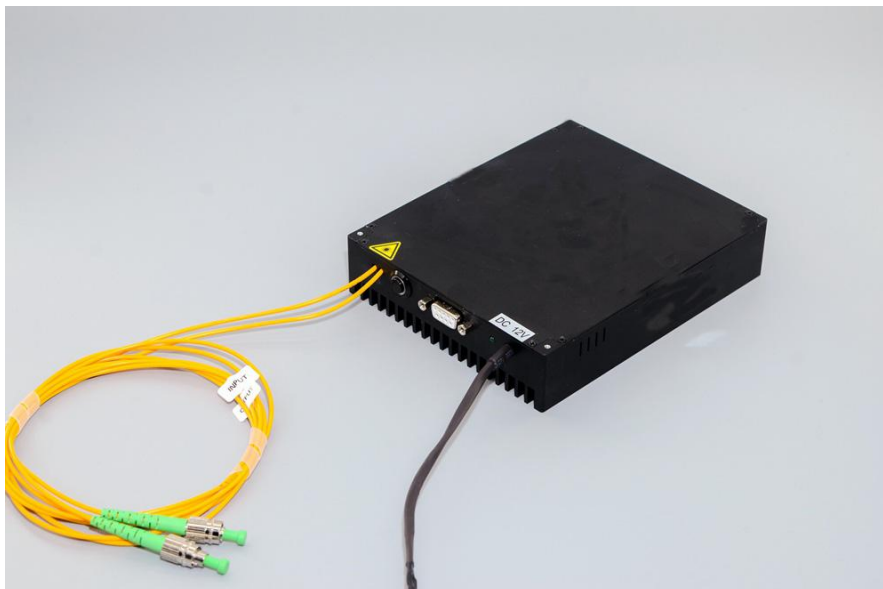
EYDFA	Operating Wavelength	Amplifier Type	Output Power(dBm)	Fiber Type	Packaging
	C = C-Band	HP-BA = High Power BA Amplifier	27/30/33/35/37/40	PM=Polarization Maintaining Fiber	M=Module B=Benchtop

***Note 1: ACC mode - automatic current control:** The EDFA pump operating 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, applicable to all EDFA models. PA type amplifiers only support ACC mode.

APC mode - automatic power control: The user sets the signal light output power of EDFA, PD automatically monitors and feedbacks the output power, EDFA controls and adaptively adjusts the pump to achieve stable output signal, and the power adjustment range in APC mode is usually 10%~100%. The advantage of APC mode is that when the input optical power fluctuates, EDFA will minimize the fluctuation of output power as much as possible, which is suitable for power type and line type EDFAs, but not suitable for low repetition rate pulse signals.



Desktop Package: 260(W) × 320(D) × 120(H) mm



0.5W~3W High Power Module (150 × 125 × 31.5 mm)



5W~10W High Power Module (139 × 235 × 70 mm)