EYDFA Optical Amplifier 1U Rack



The high-power EYDFA adopts a two-stage amplification structure, delivering up to 37dBm output optical power and supporting APC, ACC and AGC control modes. The unit operates reliably over a wide temperature range.



Front Panel View



Rear Panel View

Applications

- Fiber optic sensing
- Optical communication control systems
- Nonlinear optics research

Features

- Saturation output optical power up to 37dBm
- Low noise
- Low power consumption
- Three operating modes: APC, ACC, AGC
- Perfect Network Interface：standard RJ45 and RS232 industrial standard interface.
- Provide upper computer software, query and set up optical amplifier equipment, use Ethernet network or serial port access.

Optical Characteristics

Product Name	EYDFA-055			
Parameter	Min	Typical	Max	Unit
Operating Wavelength	1540	1550	1565	nm

Input power	-10	-	+10	dBm
Gain	32	35	38	
Output power	23		37	dBm
Input optical power threshold	-	-12	-	dBm
Noise figure		5.5	6	dB
Input/output return loss	45	-	-	dB
polarization dependent loss	-	-	0.3	dB
Polarization mode dispersion	-	-	0.5	ps
Operating Temperature	-5	-	55	℃
Humidity	5	-	85	%
Storage Temperature	-40	-	85	℃
Power consumption			50	W
Power	-48V DC AND 220V AC			V
Interface	LC/UPC or others			
Dimension	1U			mm

Oder Information

Product No.	Product description
EYDFA-37	EYDFA Max output 37dBm LC/UPC dual power 1U Rack



WARNING!

This device emits high-power invisible infrared laser radiation. Never look directly into optical ports or fiber end faces, and avoid skin exposure to the laser beam. High-power laser radiation may cause permanent eye injury and skin burns. It can melt plastic adapters and even ignite combustible materials. Always fit dust caps to unused optical ports promptly.