

17dBm Polarization Maintaining Fiber Amplifier Rack

►► Description

EDFA-PM-SO series of polarization maintaining fiber amplifiers are designed to output optimal optical performance with high reliability and stability. These amplifiers are especially developed for PM transmission, sensors and LIDAR applications.

This line of PM fiber amplifiers features a single stage amplification configuration. The use of selected components with extremely high PER and low EL values, and the careful management of splice joints to preserve polarization. Both input and output signals are sampled and monitored with feedback circuit to protect the amplification system. APC (automatic power control), AGC (automatic gain control) and ACC (automatic current control) circuits are designed into the amplifier to ensure high stability and reliability of output power. Standard user-friendly Ethernet or RS-232 network interface enables reliable connectivity with customer's network management system.

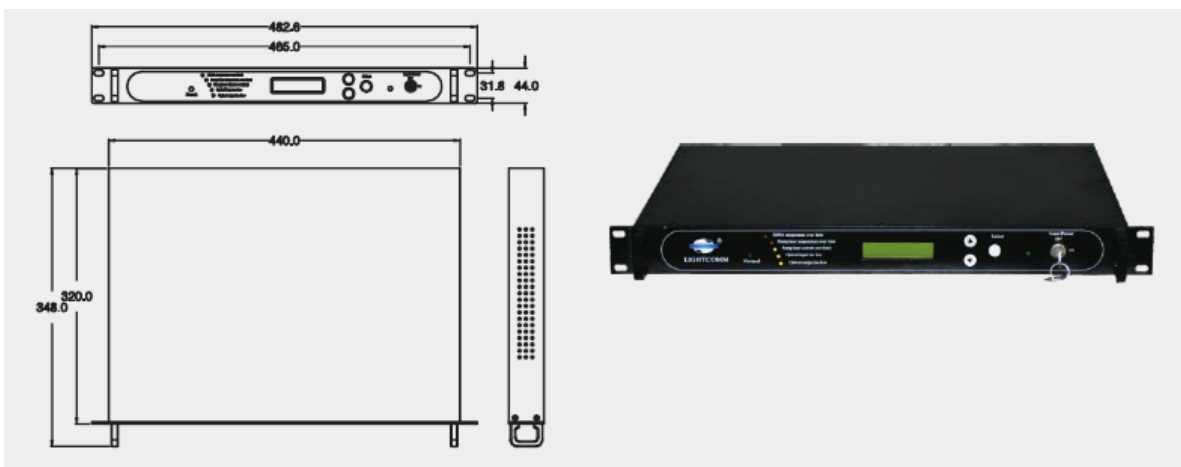
►► Features

- High polarization extinction ratio
- Low noise figure
- RS-232 or Ethernet interface
- Highly reliable laser diode pumps
- High stability and reliability based on PM fiber combining technology

►► Applications

- LIDAR & Sensor
- Test and Measurement
- Coherent synthesizing & Spectrum synthesizing
- Frequency conversion
- Microwave optics
- Booster amplifier for PM transmitters

►► Typical Mechanical Structure



Mechanical outline : 19-in 1U Rack (typical)



►► Specifications:

Optical Characteristics

Parameter	Unit	Typ.	Notes
Operating Wavelength	nm	1530~1565	Other wavelength upon request
Output Power	dBm	+15~ +17	
Input Power	dBm	-10 ~+10	
Polarization Axis		Slow axis	
Polarization Extinction Ratio	dB	>17	
Noise Figure	dB	<7.0	Pin=0dBm@1550nm
Output power stability	dB	=<0.2	APC mode, over 2 hours
Control Mode		Selectable	APC/ACC/AGC
Output Return Loss	dB	40	
Output Fiber Type		SM15-PS-U25D	
Connector Type		SC/APC	Other type upon request

Electrical & Environmental Characteristics

Parameter	Unit	Typ.	Notes
Interface Type		Rs232 or Ethernet	
Power Supply	V	220	100~240@50-60Hz
Power Consumption	W	<40	
Alarms			EDFA temperature over limit Pump laser temperature over limit Pump laser current over limit Optical input too low Optical output too low
Operating Temperature Range	℃	-5 to 55	
Storage Temperature Range	℃	-20 to 70	
Humidity	%	10 to 90	
Dimensions (W*D*H)	mm	482.6x320x44	19-in 1U rack
Cooling			Conductive via surface & Fans

►► Order Information:

EDFA-PM-SO-XX-XX/XXX-X

