



27-33dBm High Power Fiber Amplifier Rack

►► Description

YEDFA-SO series of high power fiber amplifiers are especially designed for FTTx, CATV, FDC and HFC analog amplification applications that require high reliability. Compared to conventional amplifiers, these modules are more compact, powerful, stable and reliable.

This line of high power fiber amplifiers features a dual stage amplification configuration, pre-amplifier and power amplifier, and the use of selected components with extremely low EL values. Both input and output signals are sampled and monitored with a feedback circuit. ACC (automatic current control) and APC (automatic power control) circuits are designed into the amplifier to ensure high stability and reliability of output power. Based on integrated power monitoring circuits, this amplifier features Ethernet or RS-232 network interface, supporting open network management protocol (SNMP), enhancing flexibility to maintain connectivity with customer's network management system.

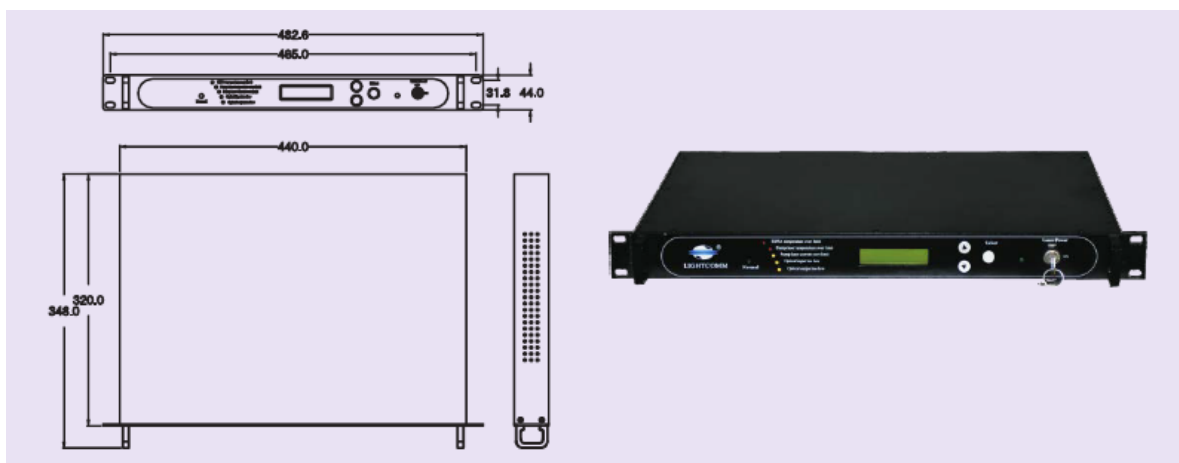
►► Features

- Wide operating temperature range
- Compact size: 19-inch 1U rack
- High stability and reliability based on multi-mode pump and fiber combiner technology
- Low noise figure
- User friendly RS232 or Ethernet (SNMP) interface

►► Applications

- Data transmission
- Power actuator
- Test/Measurement for optical device/systems
- Gas absorption detection
- Analog CATV long distance transmission Video
- optical transmission systems Optical distribution
- systems
- In-line amplification
- FTTx

►► Typical Mechanical Structure



Mechanical Outline: 19-in 1U Rack



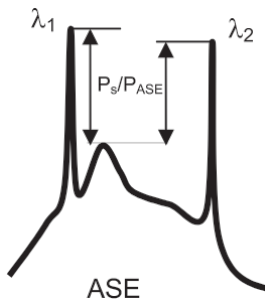
►► Specifications:

Optical Characteristics

Parameter	Unit	Typ.			Notes
Operating Wavelength	nm	1543~1565			Other wavelength upon request. Refer to illustration below
Output Power	dBm	+27	+30	+33	
Input Power	dBm	-10 ~+10			
Output power Stability	dBm	<0.2			APC mode, over 2 hours
Noise Figure	dB	<7.0			Pin=0dBm@1550nm
Control Mode		Selectable			APC/ACC/AGC
Output Return Loss	dB	40			
Fiber Type		SMF-28			
Connector Type		SC/APC			Other type upon request

Electrical & Environmental Characteristics

Parameter	Unit	Typ.			Notes
Interface Type		RS 232 or Ethernet			Ethernet supports SNMP
Power Supply	V	220			110~240@50-60Hz
Power Consumption	W	<60			
Alarms		Case 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



Operation wavelength range: $\Delta\lambda = \lambda_2 - \lambda_1$

Operation wavelength range depends on the output signal power (P_s)/ASE peak power (P_{ASE}). With low input power, P_s/P_{ASE} is small and the operation wavelength is relative narrow.

Operation wavelength is adjustable according to amplifier configuration. Full specification review is recommended.

►► Order Information:

YEDFA-SO-XX-XX/XXX-X

