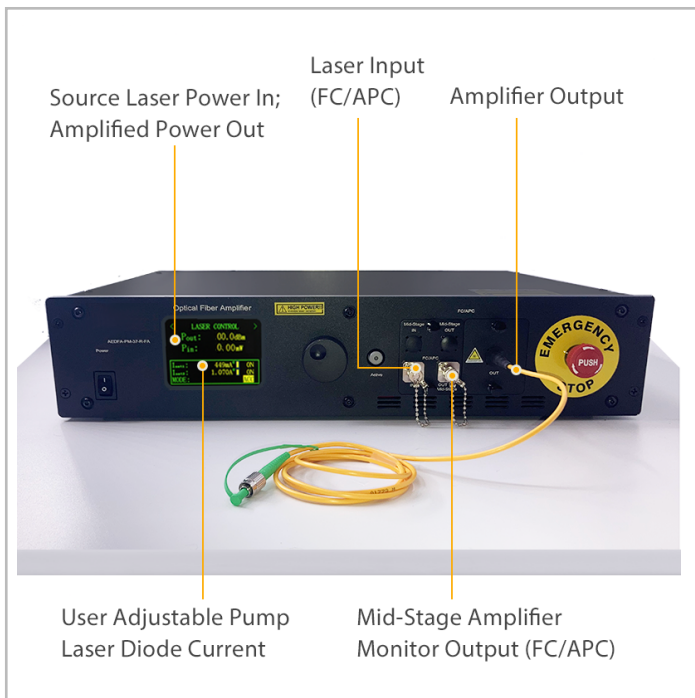




20 Watt Output Power Erbium Doped Fiber Amplifier, C-Band



High Power Erbium-Ytterbium Doped Fiber Amplifier

- o Output Power up to 20 Watts (+43 dBm)
- o 1550nm - 1565nm
- o Low Power Input Signal
- o 8.5 dB Noise Figure at 0 dBm Input
- o Polarization Independent Gain 0.3 db - 0.5 dB
- o SMF-28 Fiber



**OPTICAL
AMPLIFIERS**



HIGH POWER, C-BAND 1550NM - 1565NM AMPLIFIER

These high power EDFA's amplify C-band signals with a very low noise figure. They are simple to operate, affordable benchtop instruments for laboratory research or manufacturing test applications. In principle, the light from the integrated 976nm pump laser diodes excites the erbium ions embedded in the fiber from their ground state to high excitation levels, thereby producing the high gain levels characteristic of these erbium-ytterbium doped amplifiers.

EASY TO USE, FRONT PANEL OR REMOTE OPERATION

These units provide the user with full control of the internal 976nm pump laser diode current levels. Optionally, the instrument can be ordered with power feedback mode. The amplifier is controlled via an intuitive front menu and control knob interface. It can also be operated using the RS232 rear panel interface, or can be ordered with an optional ethernet interface. LabVIEW based control software is included with the unit, and ships free of charge. Please contact us if you would like to view the Operating Manual or see the remote interface command set.

TELCORDIA QUALIFIED COMPONENTS

These amplifiers utilize high reliability Telcordia qualified 976nm high power pump lasers and Telcordia qualified combiners. Optical isolators are integrated for both the input and the output. Careful attention to component selection and circuit board design allow these 1550nm range EDFA to produce high gain at a low noise level. Noise levels of < 8.5 dB with a very flat gain profile over the C-Band make these instruments ideal for many applications.

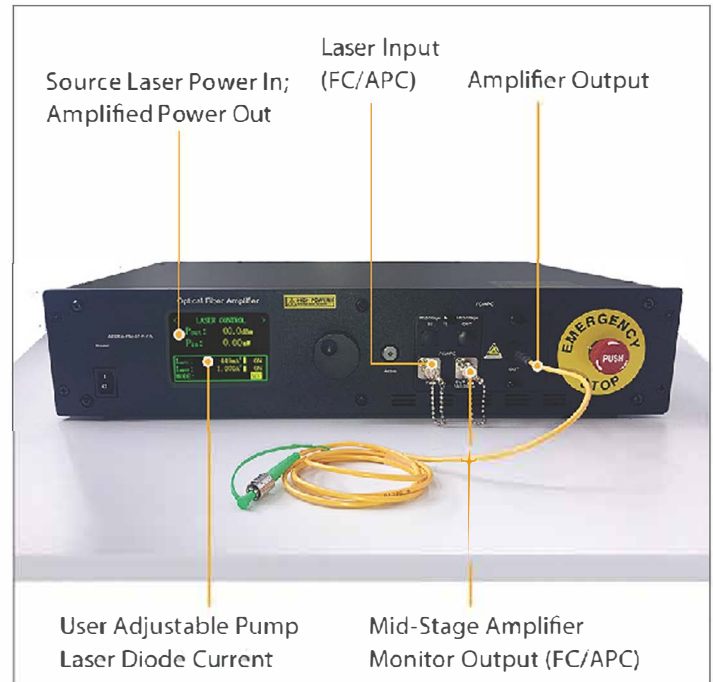
MULTIPLE POWER OPTIONS

These highly reliable and versatile EDFA systems are available with output power levels from 200mW up to 20W. Inquire directly, or find these products on LaserLabSource.com.



OPTICAL SPECIFICATIONS

- Output Power Range: Adjustable up to 20 W (+43 dBm) @10dBm laser input power
- Operational Gain Wavelength Range: 1550nm - 1565nm
- Acceptable Input Laser Source Power Range: -6 dBm to +13 dBm
- Input Isolation:> 30 dB
- Output Isolation:> 30 dB
- Polarization Dependent Gain: (typ) 0.3 dB
- Polarization Dependent Gain: (max) 0.5 dB
- Polarization Mode Dispersion: < 0.3 ps
- User Control Mode 1: ACC (user adjustable pump current levels)
- User Control Mode 2: APC (optical output power feedback; optional)
- Gain Medium: Erbium-Ytterbium Doped Fiber
- Fiber: SMF-28
- Input Connector: FC/APC
- Output: Fixed 1 Meter, 3mm PVC Jacketed Output
- Loss of Input Signal Shut-Down Protection Circuit
- Temperature Control Limit Pump Laser Overheat Warning Protection
- Rear Panel Safety Interlock Protection



USER INTERFACE (ALL MODELS)

- Alphanumeric Color Front Panel Interface w/ Adjust Knob
- Remote: RS232, LabView Control Software Included
- Remote: RJ-45 (TCP/IP Ethernet optional)
- Optical Connectors IN/OUT: FC/APC
- Optical Fiber Options: SMF-28



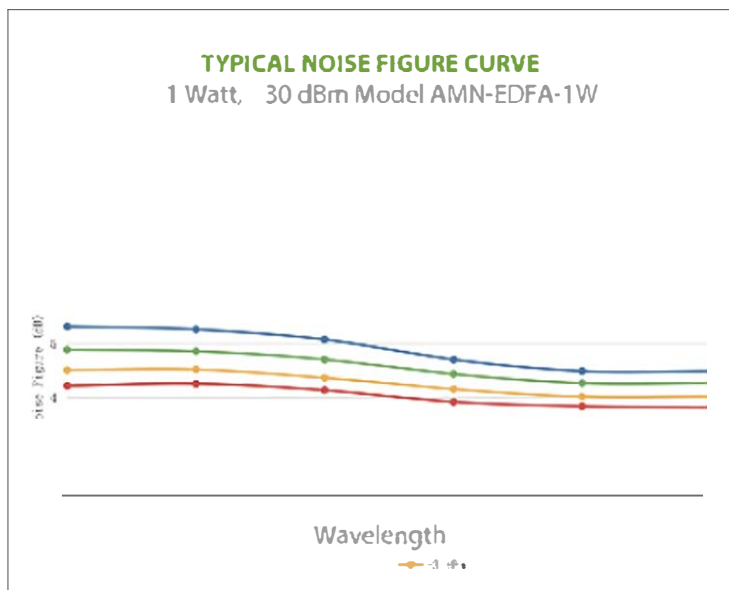
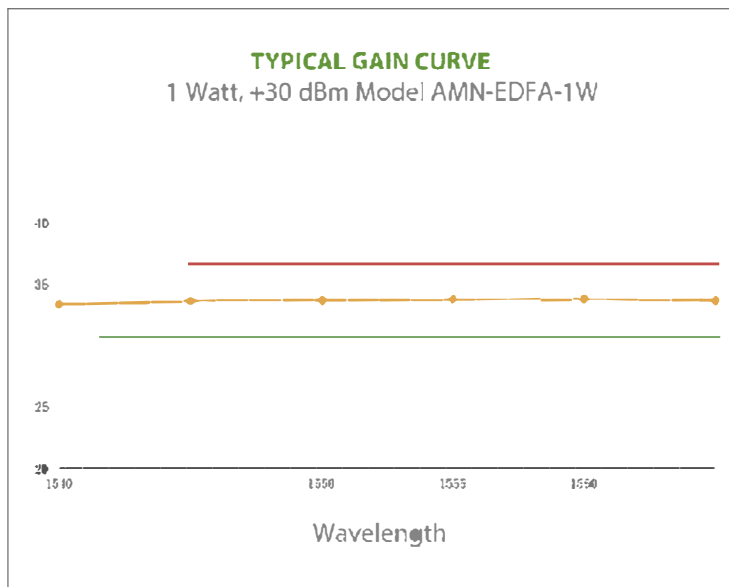


GENERAL SPECIFICATIONS (ALL MODELS)

Operation Temperature: 0 to 40 °C
Required Shore Power: 90 - 240 (VAC), 47 - 63 Hz
Dimensions (Bench Top): 485mm x 515mm x 90mm
Power Monitoring: Output Power (Input Power Optional) Remote
Control RS2323 Port: DB-9 female
TCP/IP/Ethernet optional
Protection: Pump Lasers (TEC) Over-Temperature
Protection: Pump Lasers Current Limit
Optical Fiber: SMF-28
Connectors: APC (Others Available on Request)
Safety Control 1: Key-Lock Switch
Safety Control 2: BNC Interlock
Safety Control 3 (rack mount): e-Stop
Safety Control 4: Loss of Input Power Detection and Pump Shut-Down

APPLICATIONS FOR HIGH POWER EDFA'S

Laboratory R&D
SONET/SDH System
Optical Communications
Fiber Optic Sensing
CATV and Telecommunications R&D





PRODUCT SALES AND SERVICE:

Orders for this product are fulfilled by Laser Lab Source in North America and select international regions. It is manufactured by Amonics, Ltd..

PRODUCT WARRANTY:

This product is sold with a full one-year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



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