

### Applications

- SONET/SDH Systems
- Optical Communications
- Pre-amp, Booster & In-line emulation
- CATV
- Laboratory



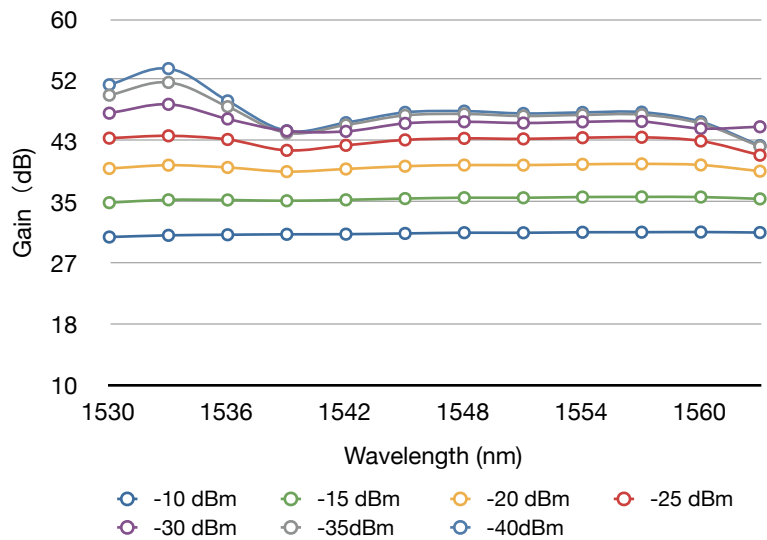
### Description

Amonics' amplifiers incorporate unique design to produce maximum signal gain and saturated output power while minimizing noise figure, which will expand your test capabilities in systems, components manufacturing and characterizing as well as research and development. The compact turnkey benchtop or 19" Rackmount instrument incorporates a user -friendly front panel housing with a LCD monitor display, key switch, power adjust control knob and optical connectors. A RS232 or Ethernet computer interface is also equipped.

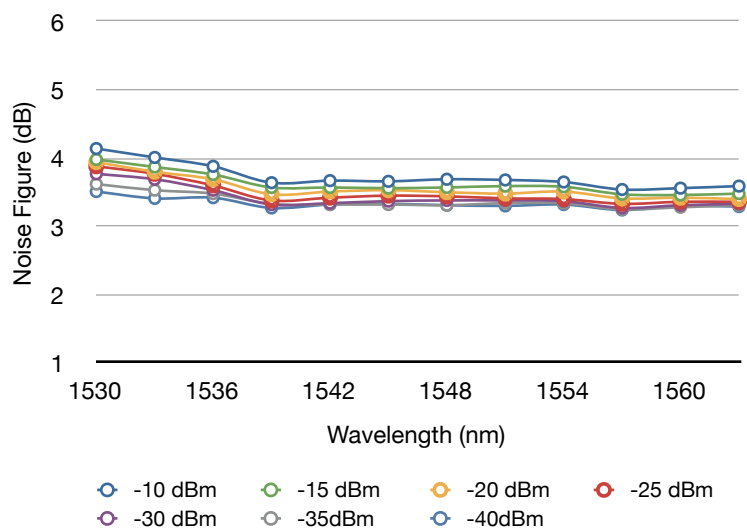
### Key Features

- Turnkey device
- RS232 computer interface
- High output power
- High gain
- Low noise figure
- Long operating life

**AEDFA-PA-35-B-FA Gain**



**AEDFA-PA-35-B-FA Noise Figure**



**Pre-amp Specifications**

	AEDFA-PA-30	AEDFA-PA-35	Environment
Input Signal Level	-40 to -10dBm		Operation Temperature Range : 0 to 40 °C Storage Temperature Range: -10 to 70 °C Power Supply (VAC): 90 – 240, 47 – 63Hz Dimensions(mm): 260 x 330 x 120 Control: Keypad, Output power LCD Display: Output power, Pump Laser current Computer Interface: RS232 / Ethernet (Option) Protection: Safety Interlock Optical Fiber: SMF-28
Optical Gain @ -40dBm	>30dB	>35dB	
Optical Gain @ -10dBm	>20dB	>30dB	
Noise Figure @ -20dBm	< 4.3dB		
Operation Wavelength	1530nm to 1563nm		
Input / Output Isolation	> 30dB		
Polarization Dependent Gain	< 0.3dB		
Polarization Mode Dispersion	< 0.3ps		

**Booster Specifications**

	AEDFA-BO-13	AEDFA-BO-18	AEDFA-BO-23
Input Signal Level	-6 to +3 dBm		
Saturated Output Power @-3dBm input Signal	> +13 dBm	> +18 dBm	> +23 dBm
Noise Figure @-3dBm Input Signal	< 5.0dB	< 5.5dB	< 6.0dB
Optical Gain @-30dBm Input Signal	> 25dB	> 30dB	> 35dB
Operation Wavelength	1530 nm to 1563 nm		
Input / Output Isolation	> 30 dB		
Polarization Dependent Gain	< 0.3 dB		
Polarization Mode Dispersion	< 0.3 ps		

**In-line Specifications**

	AEDFA-IL-13	AEDFA-IL-18	AEDFA-IL-23
Input Signal Level	-25 to -3 dBm		
Saturated Output Power @-3dBm input Signal	> +13 dBm	> +18 dBm	> +23 dBm
Noise Figure @-20dBm Input Signal	< 5.0dB	< 5.5dB	< 6.0dB
Optical Gain @-30dBm Input Signal	> 30dB	> 35dB	> 40dB
Operation Wavelength	1530nm to 1563nm		
Input / Output Isolation	> 30dB		
Polarization Dependent Gain	< 0.3dB		
Polarization Mode Dispersion	< 0.3ps		

**Ordering Information**

Product Code	AEDFA-aa-bb-c-dd	aa: PA for Pre-amp, BO for Booster, IL for In-line bb: Saturated Output Power in dBm c: B for Benchtop case, R for 1U 19" Rackmount case dd: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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Amonics undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

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