



ISO 9001 : 2015  
Certificate No.: CC 5346

## Applications

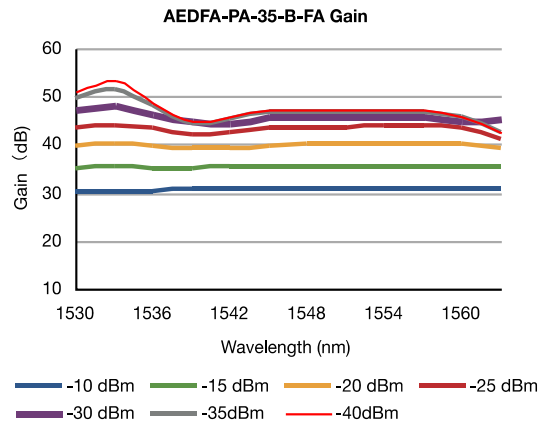
- SONET/SDH Systems
- Optical Communication
- Pre-amp, Booster & In-line emulation
- CATV
- Laboratory



## Description

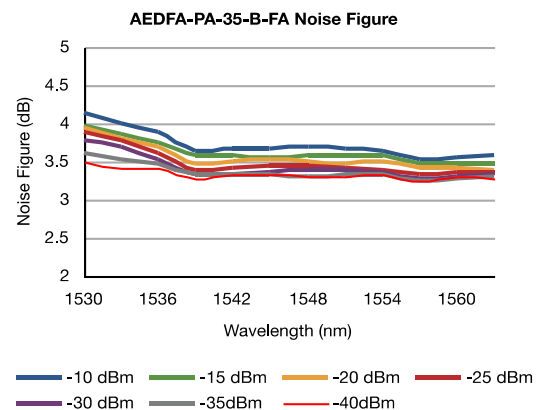
Amonics' EDFA range adopts unique design to produce maximum signal gain and saturated output power while maintaining low noise figure, enabling test capabilities in system or component level manufacturing and characterizing processes, as well as facilitating highly demanding R&D applications.

The compact turnkey benchtop or 19" rackmount unit incorporates a user-friendly front panel housing with a LCD monitor display, key switch, power control knob and optical connectors. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition.



## Key Features

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



**Pre-amp Specifications**

35	AEDFA-PA-30	AEDFA-PA-	General Parameters
Input Signal Level	-40 to -10dBm		Operation Temperature : 0 to 40 °C Storage Temperature: -10 to 70 °C Power Supply (VAC): 90 – 240, 47 – 63Hz Dimensions(mm): Benchtop: 260(W) x 330(D) x 120(H) 1U Rackmount: 485(W) x 360(D) x 45(H) Other standard rackmount sizes are also available Safety Control: Key-lock switch, BNC interlock key Power Monitoring: Output power, Input power (optional) Remote Control Port: DB-9 female (RS232) RJ-45 (TCPIP/Ethernet) (optional) Protection: Pump laser (TEC) overheat 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	Typ. 0.3dB, Max. 0.5dB		
Polarization Mode Dispersion	< 0.3ps		

**Booster Specifications**

	AEDFA-BO-13	AEDFA-BO-18	AEDFA-BO-23
Input Signal Level	-6 to +3dBm		
Saturated Output Power @-3dBm input Signal	> +13dBm	> +18dBm	> +23dBm
Noise Figure@-3dBm Input Signal	< 5.0dB	< 5.5dB	< 6.0dB
Optical Gain@-6dBm Input Signal	> 19dB	> 24dB	> 29dB
Operation Wavelength	1530 nm to 1563nm		
Input / Output Isolation	> 30dB		
Polarization Dependent Gain	Typ. 0.3dB, Max. 0.5dB		
Polarization Mode Dispersion	< 0.3ps		

**In-line Specifications**

	AEDFA-IL-13	AEDFA-IL-18	AEDFA-IL-23
Input Signal Level	-25 to -3dBm		
Saturated Output Power @-3dBm input Signal	> +13dBm	> +18dBm	> +23dBm
Noise Figure@-20dBm Input Signal	< 5.0dB	< 5.5dB	< 6.0dB
Optical Gain@-25dBm Input Signal	> 25dB	> 30dB	> 35dB
Operation Wavelength	1530nm to 1563nm		
Input / Output Isolation	> 30dB		
Polarization Dependent Gain	Typ. 0.3dB, Max. 0.5dB		
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 continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

Amonics Limited, 14/F, Lee King Industrial Building, 12 Ng Fong Street, San Po Kong, Kowloon, Hong Kong  
 Beijing Amonics Co. Ltd. Room 902, Unit 1 Joy Mansion, No.99 Chaoyang North Road, Beijing 100123, CHINA

Email: [contact@amonics.com](mailto:contact@amonics.com) Website: [www.amonics.com](http://www.amonics.com)

HK Tel: +852 2428 9723 HK Fax: +852 2428 9704 Beijing Tel: +86 10 84783386 Beijing Fax: +86 10 84783396

