

Key Features

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

1U Rackmount Casing



Benchtop Casing



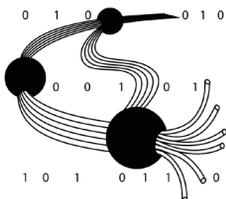
1550nm - CW

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.

Application



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



- Laboratory



ISO 9001 : 2015
Certificate No.: CC 5346

Our product is manufactured under a HKQAA ISO 9001 certified quality management system. The ISO 9001:2015 certification applies to the Hong Kong production site only.

Pre-amp Specifications

Model	AEDFA-PA-30	AEDFA-PA-35
Input Signal Level	-40 to -10 dBm	-40 to -10 dBm
Optical Gain @-40 dBm	Min. 30 dB	Min. 35 dB
Optical Gain @-10 dBm	Min. 20 dB	Min. 30 dB
Noise Figure @-20 dBm	Typ. 4.3 dB, Max. 4.5 dB	Typ. 4.3 dB, Max. 4.5 dB
Operation Wavelength	1530 nm to 1563 nm	1530 nm to 1563 nm
Input / Output Isolation	Min. 30 dB	Min. 30 dB
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB
Polarization Mode Dispersion	Typ. 0.3 ps, Max. 0.5 ps	Typ. 0.3 ps, Max. 0.5 ps

Booster Specifications

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

In-line Specifications

Model	AEDFA-IL-13	AEDFA-IL-18	AEDFA-IL-23
Input Signal Level	-25 to -3 dBm	-25 to -3 dBm	-25 to -3 dBm
Saturated Output Power @-3dBm input Signal	Min. +13 dBm	Min. +18 dBm	Min. +23 dBm
Noise Figure @-20dBm Input Signal	Typ. 4.5 dB, Max. 5.0 dB	Typ. 5.0 dB, Max. 5.5 dB	Typ. 5.0 dB, Max. 5.5 dB
Optical Gain @-25dBm Input Signal	Min. 25 dB	Min. 30 dB	Min. 35 dB
Operation Wavelength	1530 nm to 1563 nm	1530 nm to 1563 nm	1530 nm to 1563 nm
Input / Output Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB	Typ. 0.3 dB, Max. 0.5 dB
Polarization Mode Dispersion	Typ. 0.3 ps, Max. 0.5 ps	Typ. 0.3 ps, Max. 0.5 ps	Typ. 0.3 ps, Max. 0.5 ps

General Parameters

	Value	Remarks
Operation Temperature	0 to 40 °C	
Storage Temperature	-10 to 70 °C	
Power Supply	90 – 240 VAC, 47 – 63 Hz	
Benchtop Dimensions	260(W) x 330(D) x 120(H) mm	
1U Rackmount Dimensions	485(W) x 360(D) x 45(H) mm	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	
Remote Control Port	DB-9 female (RS232), RJ-45 (TCP/IP/Ethernet) (optional)	
Protection	Pump laser (TEC) overheat	
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC	
Optical Fiber	SMF-28	

Ordering Information

Product Code	AEDFA-aa-bb-c-dd	aa : PA for Pre-amp, BO for Booster, IL for In-line bb : Optical gain in dB for PA, Saturated output power in dBm for BO & IL 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.

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