Standard Erbium Doped Amplifier

Amonics
Specialist in Optical Amplifiers

1550nm - CW

Key Features

- Turnkey device
- RS232/Ethernet interface
- High output power, up to 20W
- High gain
- Low noise figure
- Highly reliable and durable

1U Rackmount Casing

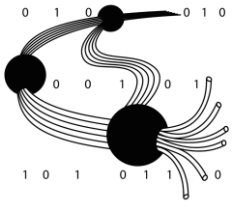
Benchtop Casing

Description

Erbium-doped Fiber Amplifiers (EDFAs) are our core products. With years of experience on design and products, our EDFAs excel in stability, reliability and robustness. They have excellent track records with happy users around the world and enjoy huge success in various applications. The EDFAs feature high output power, high gain with very low noise, and they can be customized to accommodate a wide range of input signal levels.

The turnkey microprocessor-controlled EDFAs provide illustrative alarms and status indicators. An integrated RS232 computer interface enables easy control, diagnostic functions and data acquisition. All EDFAs are available in both benchtop and rackmount casings.

Application



- SONET/SDH Systems
- Optical Communications
- CATV

- Fiber Optic Sensing

- 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.

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Specifications

Model	AEDFA-13	AEDFA-18	AEDFA-23
Saturation Output Power (at -3dBm input signal)	Min. +13 dBm	Min. +18 dBm	Min. +23 dBm
Small-Signal gain at 1550nm (at -30dBm input signal)	Min. 30 dB	Min. 32 dB	Min. 37 dB
Noise Figure (at -3dBm input signal)	Typ. 5.0 dB	Typ. 5.5 dB	Typ. 6.0 dB
Operating Wavelength	1528 nm to 1565 nm	1528 nm to 1565 nm	1528 nm to 1565 nm
Input Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB
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
Control Mode	ACC, APC, AGC(optional)	ACC, APC, AGC(optional)	ACC, APC, AGC(optional)

* Other output power models available upon request
Option: Gain Flattening Filtering

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
Mechanical Safety Control	Key-lock switch, BNC interlock key	
Optical Power Monitoring	Output power, Input power (optional)	
Remote Control Port	DB-9 female (RS232), Control software included, 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-b-cc	aa : Saturation output power in dBm b : B for Benchtop, R for 19" Rackmount cc : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC

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 (Hong Kong)
14/F, Lee King Industrial Building, 12 Ng Fong Street,
San Po Kong, Kowloon, Hong Kong
Tel :+852 2428 9723 Fax :+852 2428 9704

Beijing Amonics Co. Ltd. (Beijing)
Room 902, Unit 1 Joy Mansion, NO.99 Chaoyang North Road, Beijing China 100123
Tel :+86 10 8478 3386 Fax :+86 10 8478 3396
Email: contact@amonics.com Website: www.amonics.com