High Power EDFA

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

Benchtop Casing

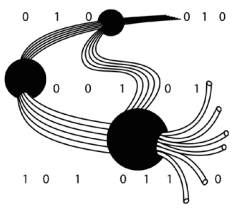
2U Rackmount Casing

Description

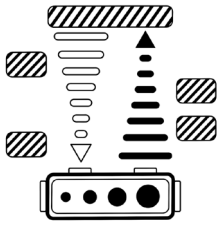
Amonics' High Power EDFA series offer saturated output power from 0.5W to 20W. It is a standalone turnkey device, available in benchtop or rackmount casing.

The front panel includes a LCD monitor display, key switch, power adjust control knob, and fiber input and output adaptors. A RS232 computer interface is provided for control and monitoring. This EDFA is well suited for R&D in the fields of telecommunications, fiber optic sensing, and CATV applications.

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.

Benchtop High Power EDFA Specifications

Model	AEDFA-27-B	AEDFA-30-B	AEDFA-33-B
Saturation Output Power (at 0dBm input signal)	Min. +27 dBm	Min. +30 dBm	Min. +33 dBm
Input Signal Level	-6 to +3 dBm	-6 to +3 dBm	-6 to +3 dBm
Noise Figure (at 0dBm input signal)	Typ. 5.5 dB	Typ. 6.0 dB	Typ. 6.0 dB
Operating Wavelength	1535nm to 1565nm	1540 nm to 1565 nm	1540 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. 0.3dB, Max. 0.5dB	Typ. 0.3dB, Max. 0.5dB	Typ. 0.3dB, Max. 0.5dB
Control Mode	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)

* L-Band or other output power models are available upon request
Option: Narrow bandpass filters

Rackmount High Power EDFA Specifications

Model	AEDFA-37-R	AEDFA-40-R	AEDFA-43-R
Saturation Output Power	Min. +37 dBm (at +3dBm input signal)	Min. +40 dBm (at +3dBm input signal)	Min. +43 dBm (at +10dBm input signal)
Input Signal Level	-6 to +13 dBm	-6 to +13 dBm	-6 to +13 dBm
Noise Figure	Typ. 6.0 dB (at +3 dBm input signal)	Typ. 6.5 dB (at +3 dBm input signal)	Typ. 8.5 dB (at +10 dBm input signal)
Operating Wavelength	1545 nm to 1565 nm	1545 nm to 1565 nm	1550 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. 0.3dB, Max. 0.5dB	Typ. 0.3dB, Max. 0.5dB	Typ. 0.3dB, Max. 0.5dB
Control Mode	ACC, APC (optional)	ACC, APC (optional)	ACC, APC (optional)

* L-Band or other output power models are available upon request
Option: Narrow bandpass filters

High Power EDFA

General Parameters

	Value
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
2U Rackmount Dimensions	485(W) x 515(D) x 90(H) or 485(W) x 360(D) x 90(H) mm [Output Power < 10W]
3U Rackmount Dimensions	485(W) x 615(D) x 150(H) mm
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 , Bare fiber
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, NC for bare fiber

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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