



ISO 9001 : 2008  
Certificate No.: CC 5346

### Applications

- SONET/SDH Systems
- Optical Communication
- Fiber Optic Sensing
- CATV
- Laboratory



### Description

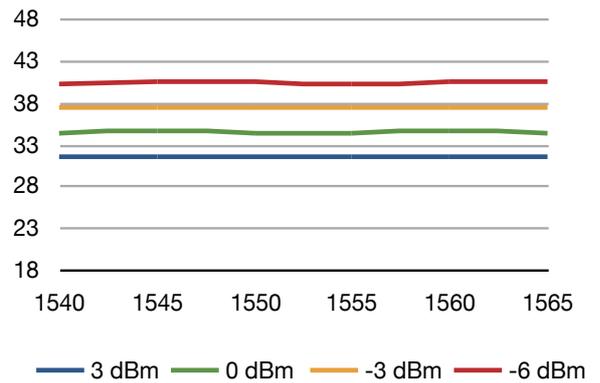
Amonics' High Power EDFA series offer saturated output power from 0.5W to 20W. It is a standalone turnkey device, available in benchtop or rackmount casing.

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.

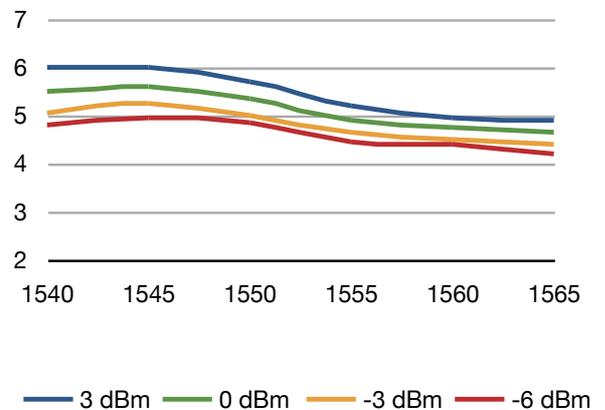
### Key Features

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

AEDFA-33-B-FA Gain (dB)



AEDFA-33-B-FA Noise Figure (dB)



**Specifications**

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

\* Other output power models are available upon request

**General Parameters**

Parameters	Unit	Specifications
Operation Temperature	°C	0 to +40
Storage Temperature	°C	-10 to +70
Power Supply	VAC	90 – 240, 47 – 63Hz
Dimensions	mm	Benchtop: 260(W) x 330(D) x 120(H) Rackmount: 485(W) x 360(D) x 90(H)
Mechanical Safety Control	-	Key-lock switch, BNC interlock key
Optical Power Monitoring	-	Output power, Input power (optional)
Remote Control Port	-	DB-9 female (RS232), LabView 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

**Other Option**

- Gain flattening filtering



**Ordering Information**

Product Code	AEDFA-xx-y-zz	xx : Saturation output power in dBm y : B for Benchtop, R for 19" Rackmount zz : 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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