

## Key Features

- Small foot print
- High output power
- High gain
- Wide operation range
- Single +5V power supply
- Highly reliable and durable



Module Casing

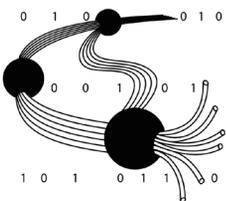
1550nm - CW

## Description

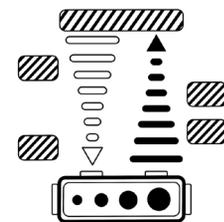
Amonics EDFA module, operated on a single +5V power supply, is an ideal building block for OEM system integration as it comes with the essential EDFA functions to serve various purposes and the interfaces ready for system integration.

Photodetection of output and/or input signal is included. Three different control modes, ACC, APC and AGC, are available to meet different requirements.

## Application



- SONET/SDH Systems
- LANs and MANs
- CATV Networks



- 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.

## 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, Max. 5.5 dB	Typ. 5.0 dB, Max. 5.5 dB	Typ. 5.5 dB, Max. 6.0 dB
Operating Wavelength	1528 nm to 1563 nm	1528 nm to 1563 nm	1528 nm to 1563 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
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	5.0 ± 0.1 VDC
AEDFA-13 /AEDFA-18 Dimensions	100(W) x 120(D) x 22(H) mm
AEDFA-23 Dimensions	120(W) x 200(D) x 25(H) mm
Electrical Connector Interface	14-pin MIL Socket for AEDFA-13/AEDFA-18; DB25 Connector for AEDFA-23
Optical Power Monitoring	Output power, Input power (optional)
Protection	Pump laser (TEC) overheat
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	Min. 0.5 m long SMF-28

## Ordering Information

Product Code	AEDFA-aa-M-bb	aa : Saturation output power in dBm bb : 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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