

## Key Features

- Full C-Band
- High polarization extinction ratio (Option)
- Turnkey device
- High output power
- High gain
- Low noise figure
- Long operating life time

Benchtop Casing



2U Rackmount Casing

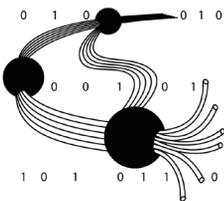


1550nm - CW

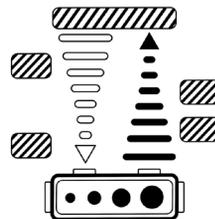
## Description

Amonics offers full C-Band EDFAs for various applications such as free space communications, coherent beam combining, and detection system. The output light is linearly polarized with high polarization extinction ratio in PM version. The compact turnkey benchtop or 19" rackmount instrument incorporates a user-friendly front panel housing with a LCD monitor display, key switch, power adjust control knob and optical connectors. A RS232 or Ethernet computer interface is also equipped.

## 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.

## High Power Full C-Band EDFA Specifications

Model	AEDFA-C-27	AEDFA-C-30	AEDFA-C-33
Saturation Output Power (at 0dBm input signal)	Min. +27 dBm	Min. +30 dBm	Min. +32 dBm Typ. +33 dBm
Input Signal Level	-6 to +6 dBm	-6 to +6 dBm	-6 to +6 dBm
Operation Wavelength	1529 nm to 1565 nm	1529 nm to 1565 nm	1529 nm to 1565 nm
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
Noise Figure (at 0dBm input signal)	Typ. 5.5 dB, Max. 6.0 dB	Typ. 5.5 dB, Max. 6.0 dB	Typ. 5.5 dB, Max. 6.0 dB
Input / Output Isolation	Min. 30 dB	Min. 30 dB	Min. 30dB
Control Mode	ACC, APC (optional)	ACC, APC (optional)	ACC, APC (optional)

\* Other output power models available upon request

## High Power Full C-Band PM EDFA Specifications

Model	AEDFA-PM-C-27	AEDFA-PM-C-30	AEDFA-PM-C-33
Saturation Output Power (at 0dBm input signal)	Min. +27 dBm	Min. +30 dBm	Min. +32 dB Typ. +33 dBm
Input Signal Level	-6 to +3 dBm	-6 to +3 dBm	-6 to +3 dBm
Operation Wavelength	1529nm to 1565 nm	1529 nm to 1565 nm	1529 nm to 1565 nm
Polarization Extinction Ratio	Min. 18 dB, Typ. 20 dB	Min. 18 dB, Typ. 20 dB	Min. 18 dB, Typ. 20 dB
Noise Figure (at 0dBm input signal)	Typ. 5.5 dB, Max. 6.0 dB	Typ. 5.5 dB, Max. 6.0 dB	Typ. 5.5 dB, Max. 6.0 dB
Input / Output Isolation	Min. 30 dB	Min. 30 dB	Min. 30 dB
Control Mode	ACC, APC (optional)	ACC, APC (optional)	ACC, APC (optional)

\* Other output power models available upon request

Option: Input power monitoring

## 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	
2U Rackmount Dimensions	485(W) x 360(D) x 90(H) mm	Other standard rackmount sizes are also available
Control	Key-lock switch, BNC interlock key	
LCD Display	LCD Display, Pump laser current	
Computer Interface	RS232 (Control software & connection cable included) / Ethernet (Option)	
Protection	Pump laser overheat warning	
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC	
Optical Fiber	SMF-28	PM 1550nm Panda Fiber for PM Version

## Ordering Information

Product Code	AEDFA-PM-C-aa-b-cc AEDFA-C-aa-b-cc	aa: Saturated Output Power in dBm b : B for Benchtop case, R for 19 inches Rackmount case cc : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC, NC for Bare fiber
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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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