# L-Band and Extended L-Band DWDM EDFA

Amonics
Specialist in Optical Amplifiers

1550nm - CW

## Key Features

- Turnkey device
- RS232/Ethernet interface
- High output power
- High gain
- Low noise figure
- Highly reliable and durable

**1U Rackmount Casing**

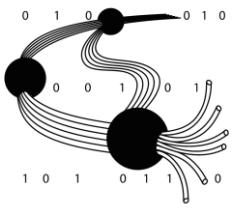
**Benchtop Casing**

## Description

L-band and Extended L-band DWDM Erbium-doped Fiber Amplifiers (EDFA) are among the Amonics' specialist products. They are designed with high-power pump laser and high-stability pump combiners, renowned for robustness in high power boosting. 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. They are thus ideal for various demanding applications.

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

## Application



- SONET/SDH Systems
- Optical Communications

- Fiber Optic Sensing

- DWDM applications

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-L-DWDM | AEDFA-L-EX1-DWDM | AEDFA-L-EX2-DWDM | Remarks |
|---|---|---|---|---|
| Saturation Output Power | +22 dBm | +22 dBm | +22 dBm | |
| Wavelength | 1570 nm to 1603 nm | 1570 nm to 1610 nm | 1570 nm to 1620 nm | |
| Gain | 21, 25 dB | 21, 25 dB | 21, 25 dB | Input Power: +1, -3 dBm |
| Noise Figure | Typ. 6.0 dB, Max. 6.5 dB | Typ. 6.5 dB, Max. 7.0 dB | Typ. 6.5 dB, Max. 7.5 dB | |
| Gain Flatness (peak to peak) | Typ. 1.0 dB, Max. 2.0 dB | Typ. 1.5 dB, Max. 2.0 dB | Typ. 1.5 dB, Max. 2.0 dB | |
| Input & 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 | 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 |
| 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-L-DWDM-aa-b-cc<br>AEDFA-L-EX1-DWDM-aa-b-cc<br>AEDFA-L-EX2-DWDM-aa-b-cc | aa : Saturated output power in dBm<br>b : B for Benchtop, R for 19 inch Rackmount<br>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.*


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