

Key Features

- Non-interrupt power supply allows continuous operation
- Rechargeable batteries for backup operation
- Intelligent battery management
- Bi-directional EDFA system
- Light weight
- Waterproof casing



**Emergency Alternative
EDFA System**



1550nm - CW

Description

Telecommunication systems are vitally important in our daily lives, even more so during the rescue and recovery processes upon natural disasters, such as the earthquake hitting the east-coast of Japan in 2011. The deadly earthquake rattled the nation coast before unleashing a deadly tsunami that swept away cars, homes and businesses as it touched land. The communication infrastructure was among the victims. Rapid rebuilding of the telecommunication system becomes an absolute priority.

Amonics' Emergency Alternative EDFA system is a hand-held battery-powered Bi-directional Packet Switching DWDM EDFA module. It is designed for instant reconnection of fractured telecommunication system under emergency conditions. This all-in-one EDFA device features long operating time, lightweight and waterproof (IP68) casing.

Bi-directional EDFA

- ✓ Burst mode
- ✓ Bi-directional
- ✓ Transient suppression
- ✓ Low noise figure
- ✓ Small pattern effect

Battery Management System

- ✓ Battery capacity detection
- ✓ Intelligent battery arrangement
- ✓ Battery status display
- ✓ Overheat protection charging circuit

Sealed Enclosure

- ✓ Waterproof (IP68)
- ✓ Silica protective cover
- ✓ Shock and Vibration Protection meets with Military Standard (Mil-STD-810G)
- ✓ Multi-Core Round Fiber Optic Ribbon Cable



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-PKT-DWDM-15-EMER-LC
Input Power	-16 dBm to -3 dBm
Output Power * (@ -3 dBm input signal)	Min. +15 dBm
Noise Figure (@ -3dBm input signal)	Typ. 5.0 dB, Max. 5.5 dB
Operating Wavelength #	1537.37 nm to 1561.62 nm
Gain Flatness	Max. ± 1.2 dB
Optical Gain (@ -3 dBm Input signal)	Min. 18 dB
Gain Excursion	Typ. ± 0.1 dB/ms, Max. ± 0.2 dB/ms
Input and Output Isolation	Min. 30 dB
Polarization Dependent Gain	Max. 0.5 dB
Control Mode	ACC (Option: APC, AGC)

* Other output power models available upon request

EDFAs of other wavelength ranges, such as L-band, are available

General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	12 V
Dimensions	156.3(W) x 275(D) x 81.3(H) mm (without protective cover)
Optical Connector	LC/UPC
Optical Fiber	SMF-28

Customized casing size, optical performance, control mode and power supply requirements are also available upon request. Amonics supplies EDFAs of other types, such as pre-amp or Booster.

Ordering Information

Product Code	AEDFA-PKT-DWDM-aa-EMER-LC	aa : Output power in dBm
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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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