

## Key Features

- High output power
- High gain
- Wide operation range
- Highly reliable and durable

## Benchtop Casing



1550nm - Pulsed

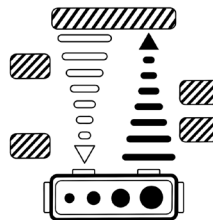
## Description

Amonics' Pulse EDFA is designed for amplifying optical short pulse to high pulse energy level. Amonics' engineers have a lot of knowledge in designing pulse optical amplifier, especially handling the nonlinearity in optical fiber due to high pulse peak power of the optical short pulse. We can design custom pulsed EDFA for different applications, such as fiber optic sensing and free space optical sensing. Our pulse EDFA has been widely used in industrial fiber laser based Lidar systems for wind velocity detection.

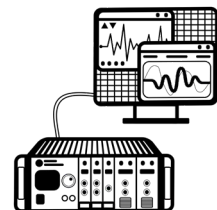
## Application



- Laboratory



- Fiber Optic Sensing



- High power ultrashort pulse amplification
- High-resolution optical time domain reflectometry(OTDR)



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-PS	AEDFA-PM-PS
Operating Wavelength	1540 nm to 1560 nm	1540 nm to 1560 nm
Saturated Output Power up to (at 10mW peak input power)	40 dBm (50 ps pulse width, 100 MHz rep rate), Min. 25 dBm (50 ps pulse width, 10 MHz rep rate)	40 dBm (50 ps pulse width, 100 MHz rep rate), Min. 25 dBm (50 ps pulse width, 10 MHz rep rate)
Input Signal Peak Level	+10 dBm	+10 dBm
Pulse Repetition Rate	1 MHz to 100 GHz	1 MHz to 100 GHz
Noise figure	Max. 7.5 dB	Max. 7.5 dB
Input / Output Isolation	Min. 30 dB	Min. 30 dB
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	NA
Polarization Mode Dispersion	Typ. 0.3 dB, Max. 0.5 ps	NA
Polarization Extinction Ratio	NA	Typ. 23 dB, Min. 20 dB
Optical Fiber	SMF-28	PM 1550 Panda Fiber

\* Different output power models are available upon request  
Options: Pulse picker for low repetition rate down to 100 kHz

## 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
Control	Keylock switch, Pump laser current
LCD Display	Output power, Pump laser current, Input power (Optional)
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, collimator, bare fiber (No output connectors for output power >2W)

## Ordering Information

Product Code	AEDFA(-PM)-PS-aaa-bb-cc-B-dd	aaa: Pulse Width in ps bb : Repetition Rate in MHz cc : Average Output Power in dBm dd : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC, CL for collimator, 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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