

## Key Features

- Eye-safe wavelength – 1550nm
- Linear polarization emission
- Pulse duration from 100 to 1000ns
- Pulse repetition rate from 10 to 20kHz
- Narrow linewidth input
- Low RIN & phase noise
- Wide operating temperature, from -10 to +60°C
- Maintenance free
- High reliability



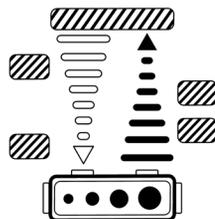
AEDFA-PM-UL- NS-200-20-33-M  
Casing

1550nm - Pulsed

## Description

Amonics' Narrow Linewidth Pulse EDFA series offers eye-safe, single mode, linear polarized nanosecond-pulsed amplifier. It is designed for three-dimensional imaging, wind detection and ranging LiDAR systems. The Narrow Linewidth Pulse EDFA series is maintenance free with no post-installation service required. It is a versatile, ready-to-use and durable laser source for various LiDAR applications.

## Application



- Wind-speed Measurement
- Range Finder
- Pollution Monitoring
- 3D Imaging



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.

# Narrow Linewidth Pulse PM EDFA Module

## Specifications

Model	AEDFA-PM-UL-NS-200-20-23	AEDFA-PM-UL-NS-200-20-27	AEDFA-PM-UL-NS-200-20-33
Mode of Operation	Nano-second pulse	Nano-second pulse	Nano-second pulse
Input Power Range	-18 dBm to 0 dBm	-18 dBm to 0 dBm	-18 dBm to 0 dBm
Average Output Power	Typ. 23 dBm	Typ. 27 dBm	Typ. 33 dBm
Pulse Energy @150ns, 20kHz, 0 dBm average input power	Typ. 10 $\mu$ J	Typ. 40 $\mu$ J	Typ. 150 $\mu$ J
Pulse Width	100 ns to 1000 ns	100 ns to 1000 ns	100 ns to 1000 ns
Pulse Repetition Rate	10 kHz to 20 kHz	10 kHz to 20 kHz	10 kHz to 20 kHz
Operating Wavelength	1550 nm $\pm$ 0.5 nm (other wavelengths are available)	1550 nm $\pm$ 0.5 nm (other wavelengths are available)	1550 nm $\pm$ 0.5 nm (other wavelengths are available)
PER	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB
Input Connector	Typ. 45 cm 3 mm PVC jacket FC/APC connector	FC/APC Receptacle	FC/APC Receptacle
Output Connector	Typ. 45 cm 3 mm PVC jacket FC/APC connector	Typ. 45 cm 3 mm PVC jacket FC/APC connector	Typ. 45 cm 3 mm PVC jacket FC/APC connector
Optical Input Fiber	PM 1550 Panda Fiber	PM 1550 Panda Fiber	PM 1550 Panda Fiber
Optical Output Fiber	PM 1550 Panda Fiber	PM LMA 25/300 GDF	PM LMA 25/300 GDF

## General Parameters

	Value
Operation Temperature	-10 to 55 °C
Storage Temperature	-10 to 70 °C
Power Supply	+12 $\pm$ 0.25 VDC
Dimensions	AEDFA-PM-UL-NS-200-20-23-M: 120(W) x 200(D) x 25(H) mm AEDFA-PM-UL-NS-200-20-27/33-M: 200(W) x 200(D) x 45(H) mm
Power Consumption	Typ. 54 W, Max. 72 W (AEDFA-PM-UL-NS-200-20-33-M)
LED Status Indicators	Power on, Case temperature overheat, Loss of input power
Remote Control Port	RS232
Protection	Overheat auto shutdown
Cooling	Air cooling

## Ordering Information

Product Code	AEDFA-PM-UL-NS-aaa-bb-cc-M-FA	aaa: Pulse Width in ns bb : Repetition Rate in kHz cc : Average 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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