

Key Features

- Turnkey Device
- RS232 computer interface
- High output power
- Single mode fiber delivery
- Highly reliability
- Long operating life time

Benchtop Casing



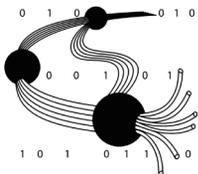
2U Rackmount Casing

1060nm - CW

Description

Amonics' polarization maintaining YDFAs are featured with high gain, low noise, and high polarization extinction ratio. The signal polarization is highly maintained after the amplification in the YDFA. The applications of the polarization maintaining YDFAs include free space sensing, material processing, and experiments in nonlinear fiber optics.

Application



- Phased and Interferometric Array Antenna



- Fiber Optic Sensing



- SHG Applications



- Medical Systems
- Industrial Lasers



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.

Benchtop PM YDFA Specifications

Model	AYDFA-PM-18	AYDFA-PM-20	AYDFA-PM-23
Saturation Output Power (at 0 dBm input signal)	Min. +18 dBm	Min. +20 dBm	Min. +23 dBm
Operating Wavelength	1054 nm to 1074 nm	1054 nm to 1074 nm	1054 nm to 1074 nm
Input / Output Isolation	Min. 25 dB	Min. 25 dB	Min. 25 dB
Polarization Extinction Ratio	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB
Control Mode	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)

Operating wavelength extension to 1090 nm and other output power models are available upon request
Option: Narrow bandpass filter

Benchtop High Power PM YDFA Specifications

Model	AYDFA-PM-27	AYDFA-PM-30	AYDFA-PM-33
Saturation Output Power (at 0dBm input signal)	Min. +27 dBm	Min. +30 dBm	Min. +33 dBm
Operating Wavelength	1054 nm to 1074 nm	1054 nm to 1074 nm	1054 nm to 1074 nm
Input Isolation	Min. 25 dB	Min. 25 dB	Min. 25 dB
Polarization Extinction Ratio	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB	Typ. 23dB, Min. 20 dB
Control Mode	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)

Operating wavelength extension to 1090 nm and other output power models are available upon request
Option: Narrow bandpass filter

Rackmount High Power PM YDFA Specifications

Model	AYDFA-PM-37	AYDFA-PM-40
Saturation Output Power (at 10dBm input signal)	Min. +37 dBm	Min. +40 dBm
Operating Wavelength	1054 nm to 1074 nm	1060 nm to 1074 nm
Input Isolation	Min. 25 dB	Min. 25 dB
Output Isolation	Min. 20 dB	Min. 20 dB
Polarization Extinction Ratio	Typ. 23 dB, Min. 20 dB	Typ. 23 dB, Min. 20 dB
Control Mode	ACC, APC (optional)	ACC, APC (optional)

Operating wavelength extension to 1090 nm and other output power models are available upon request
Option: Narrow bandpass filter

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
2U Rackmount Dimensions	485(W) x 515(D) x 90(H) mm or 485(W) x 360(D) x 90(H) mm [Output Power ≥ 5 W]
3U Rackmount Dimensions	485(W) x 615(D) x 150(H) mm [Output Power > 5 W]
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, bare fiber
Optical Fiber	PM 980

Ordering Information

Product Code	AYDFA-PM-aa-b-cc	aa: Saturation output power in dBm b : B for Benchtop case, R for 19" 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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