High Power Narrow Linewidth YDFA

Amonics
Specialist in Optical Amplifiers

1060nm - CW

Key Features

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

2U Rackmount Casing





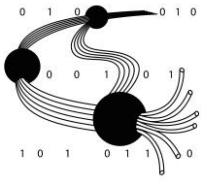
Benchtop Casing

Description

Amonics' High Power YDFA series offer saturated output power from 0.5W to 20W. It is a standalone turnkey device, available in benchtop or rackmount casing.

The front panel includes a LCD monitor display, key switch, power adjust control knob, and fiber input and output adaptors. A RS232 computer interface is provided for control and monitoring. This YDFA is well suited for R&D in the fields of free space sensing and 532 nm second harmonic laser generation.

Application



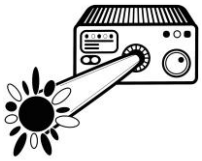
- Phased and Interferometric Array Antenna



- 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.

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Specifications

Model	AYDFA-UL	AYDFA-PM-UL
Saturation Output Power (at 0dBm input signal)	0.5W, 1W, 2W, 5W, 10W, 20W	0.5W, 1W, 2W, 5W, 10W, 20W
Input Signal Level	-6 to +3 dBm	-6 to +3 dBm
Noise Figure (at 0dBm input signal)	Typ. 9.0 dB	Typ. 9.0 dB
Operating Wavelength	1054 nm to 1074 nm	1054 nm to 1074 nm
Input Isolation	Min. 30 dB	Min. 30 dB
Output Isolation	Min. 20 dB	Min. 20 dB
Polarization Extension Ratio	N/A	Typ. 23 dB, Min. 20 dB
Polarization Dependent Gain	Typ. 0.3 dB, Max. 0.5 dB	N/A
Control Mode	ACC, APC, AGC (optional)	ACC, APC, AGC (optional)

* Other output power models available upon request
Option: Narrow bandpass filters

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 [Output power <5W]
2U Rackmount Dimensions	485(W) x 515(D) x 90(H) mm or 485(W) x 360(D) x 90(H) mm [Output power >5W]
3U Rackmount Dimensions	485(W) x 615(D) x 150(H) mm [Output power >5W]
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 or Collimator (Output connector only support up to 2W)
Optical Fiber	Hi-1060 or PM 980 or 10/125 or PM 10/125

Ordering Information

Product Code	AYDFA-UL-aa-b-cc AYDFA-PM-UL-aa-b-cc	aa : Saturation output power in dBm b : B for Benchtop, R for 19" Rackmount cc : (Output port) FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC, NC for bare fiber, CL for collimator

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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