



ISO 9001 : 2008
Certificate No.: CC 5346

Applications

- SHG Applications
- Medical Systems
- Industrial Lasers
- Fiber Optic Sensing
- Phased and Interferometric Array Antenna



Description

Ytterbium-doped Fiber Amplifier (YDFA) is another Amonics specialised product line. Like our highly recognized optical amplifiers, the YDFA offers high output power and high gain with exceptional reliability. ideal for high power YDFA applications.

The turnkey microprocessor controlled benchtop YDFAs manage alarms and status indicators. An integrated RS232 or Ethernet computer interface enables easy control, diagnostic functions and data acquisition. Available options include single frequency operation, linearly polarized operation.

Key Features

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

The product is manufactured under a HKQAA ISO 9001 certified quality management system
The ISO 9001:2008 certification applies to the Hong Kong production site only

Specifications

	AYDFA-20	AYDFA-23	AYDFA-27	AYDFA-30	AYDFA-33
Saturation Output Power (at 0dBm input signal)	> +20dBm	> +23dBm	> +27dBm	> +30dBm	> +33dBm
Operating Wavelength	1054nm – 1074nm (extension to 1090nm is available)				
Input Isolation	> 30dB				
Output Isolation	> 30dB				
Polarization Dependent Gain	Typ. 0.3dB, Max. 0.5dB				
Control Mode	ACC, APC, AGC (optional)				

* Other output models are available upon request

General Parameters

Parameters	Unit	Specifications
Operation Temperature	°C	0 to +40
Storage Temperature	°C	-10 to +70
Power Supply	VAC	90 – 240, 47 – 63Hz
Dimensions	mm	Benchtop: 260(W) x 330(D) x 120(H) 1U Rackmount: 485(W) x 360(D) x 45(H) Other standard rackmount sizes are also available
Mechanical Safety Control	-	Key-lock switch, BNC interlock key
Optical Power Monitoring	-	Output power, Input power (optional)
Remote Control Port	-	DB-9 female (RS232), LabView control software included RJ-45 (TCP/IP Ethernet) (optional)
Protection	-	Pump laser (TEC) overheat
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	-	H1 1060

Option

- Linear polarization



Class 4 for AYDFA-27, 30, 33
Class 3B for AYDFA-20, 23

Ordering Information

Product Code	AYDFA-xx-y-zz	xx : Saturation output power in dBm y : B for Benchtop case, R for 19" Rackmount case zz : FA for FC/ APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC
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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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