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Data Sheet

August 1, 2026

INO

INO FAF-50 Benchtop Erbium-Doped Fiber Amplifier

The INO FAF-50 is a benchtop erbium-doped fiber amplifier (EDFA) in the INO FAF series for C-band operation. It is a single-stage amplifier featuring low noise figure, high gain, and about +15 dBm class saturated output power. Automatic pump control, ASE filtering, and I/O signal monitoring are standard family features. Optional gain flattening and gain locking make the platform suitable for DWDM work. INO manufactures key amplifier components in-house, including erbium-doped fiber and Bragg gratings used in gain-flattening filters. C-band signal boosting for laboratory and manufacturing test; DWDM component and system evaluation; optical power amplification for sensors and measurement setups; benchtop EDFA where GPIB or RS-232 remote control is required. Form Factor: Benchtop; approximately 15 lb shipping class in secondary listings Example Measured Performance (one refurbished unit, Artisan technician notes) Saturated output approximately +16.1 dBm (Measurements with low-power 1550 nm DFB source; not a guarantee for every serial.) FAF-53 and other FAF-series amplifiers share the C-band single-stage architecture with similar feature sets and different faceplate/connector options.



MODEL

INO FAF-50

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FAF-50

LISTING

<https://aumictechlabs.com/products/faf-50-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The INO FAF-50 is a benchtop Erbium-Doped Fiber Amplifier that boosts optical signal power in the 1550 nm band. It delivers adjustable gain and output power, making it suitable for telecommunications, research, optical sensing, and instrumentation applications. The compact design and user-friendly interface enable rapid integration into laboratory and system environments without requiring extensive reconfiguration.

Technical Specifications

Operating Wavelength: 1550 nm band
Amplifier Type: Erbium-Doped Fiber Amplifier (EDFA)
Form Factor: Benchtop Fiber
Compatibility: Standard single-mode fiber at 1550 nm

Key Features

- Adjustable gain and output power for application-specific optimization
- Compact benchtop form factor designed for laboratory environments
- User-friendly interface with front-panel controls
- Direct integration into existing optical systems

Typical Applications

- Telecommunications: Signal amplification in fiber optic networks
- Research and Development: Optical and photonics laboratory experiments
- Optical Sensing: Enhanced signal detection in sensor systems
- Optical Instrumentation: Power amplification in complex optical setups

Compatibility & Integration

The FAF-50 operates with standard single-mode fibers in the 1550 nm spectrum and integrates into established optical architectures. Its adjustable parameters support diverse system requirements without requiring external modifications or specialized mounting hardware.

Features & description

From manufacturer datasheet

Features

- Single-stage C-band benchtop EDFA
- Wavelength range: 1525 to 1565 nm
- Saturated / rated output power: approximately +15 dBm (family feature; technician measurements on used units often near +16 dBm saturated)
- Gain at 1550 nm: greater than 32 dB (AssetRelay / secondary specification summary)
- 980 nm pump wavelength
- Automatic pump control
- ASE filtering
- I/O signal monitoring
- GPIB and/or RS-232 remote communication (configuration dependent; some units shipped without remote)
- Optional gain flattening and gain locking for DWDM
- Optical interfaces commonly SC/APC or other APC/PC types per configuration

FAF Characteristics / Specifications

PARAMETER	VALUE
Model	FAF-50
Manufacturer	INO (National Optics Institute / INO photonics lineage)
Instrument Type	Benchtop erbium-doped fiber amplifier
Wavelength Range	1525 to 1565 nm (C-band)
Pump Wavelength	980 nm
Output Power	15 dBm class (saturated output measured near +16 dBm on some refurbished units)
Gain at 1550 nm	greater than 32 dB (AssetRelay / secondary specification summary)
Noise Figure	approximately 4.5 dB class (family / secondary summaries)
Remote Interface	GPIB / RS-232 (when installed)
Optical Connector	configuration dependent (example: SC/APC on Artisan configuration notes)
Form Factor	Benchtop; approximately 15 lb shipping class in secondary listings Example Measured Performance (one refurbished unit, Artisan technician notes) Pin = -30 dBm, Pout = +12.2 dBm Pin = -4 dBm, Pout = +15.8 dBm Saturated output approximately +16.1 dBm (Measurements with low-power 1550 nm DFB source; not a guarantee for every serial.)
Saturated / rated output power	approximately +15 dBm (family feature; technician measurements on used units often near +16 dBm saturated)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	FAF-50
Manufacturer	INO (National Optics Institute / INO photonics lineage)
Instrument Type	Benchtop erbium-doped fiber amplifier
Wavelength Range	1525 to 1565 nm (C-band)
Pump Wavelength	980 nm
Output Power	15 dBm class (saturated output measured near +16 dBm on some refurbished units)
Gain at 1550 nm	greater than 32 dB (published secondary specification)
Noise Figure	approximately 4.5 dB class (family / secondary summaries)
Remote Interface	GPIOB / RS-232 (when installed)
Optical Connector	configuration dependent (example: SC/APC on Artisan configuration notes)
Form Factor	Benchtop; approximately 15 lb shipping class in secondary listings

Example Measured Performance (one refurbished unit, Artisan technician notes)

Pin = -30 dBm, Pout = +12.2 dBm
Pin = -4 dBm, Pout = +15.8 dBm
Saturated output approximately +16.1 dBm (Measurements with low-power 1550 nm DFB source; not a guarantee for every serial.)

Related Models

FAF-53 and other FAF-series amplifiers share the C-band single-stage architecture with similar feature sets and different faceplate/connector options.

Standard Operating Conditions

Allow warm-up before recording gain and noise figure. Use clean, matched connectors. Observe EDFA / pump laser safety practices.

Operational Notes

Confirm whether GPIOB/RS-232 is populated on the specific unit. Gain-flattening options may or may not be installed; check option labels. Do not exceed recommended maximum input power for the installed configuration.

Laser Safety

laser safety practices. Operational Notes Confirm whether GPIB/RS-232 is populated on the specific unit. Gain-flattening options may or may not be installed; check option labels. Do not exceed recommended maximum input power for the installed configuration.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.