

C-band High Power Optical Fiber Amplifier



Product Description:

The MARS series C-band high power optical fiber amplifiers of Connet employ the high-power, high-performance multi-mode pump source inside and adopt the double cladding fiber amplification technology in the integrated design of all-fiber structure. The output power can be 1~20W. The MARS series optical fiber amplifiers are the integral Turn-Key system with the microprocessor inside for controlling. With a clear interface and easy control, the LCD on the front panel can give a real-time display of the operating state of the pump current and temperature. The LCD can also offer the warning messages.

Due to the extensive experience in handling the double cladding fiber, Connet conducts the proper optimal optical structure design for the high power fiber amplifiers to achieve the high efficiency output. The unique thermal treatment technology guarantees that the optical fiber amplifier can be operated stably for a long time. The high-speed response protection circuit monitors the power of the input and the output signals automatically so that it can cut off the operation of the high power pump in case of the falling off of the input signal to ensure the safety of the whole system.

Applications:

- Non-linearity research
- High power amplifying
- Fiber optic sensing
- Optical fiber communication
- Research & development

Features:

- High output power
- Low noise
- High stability, high reliability
- LCD display interface

Specifications:

Parameter	Unit	Specification			
Part no.		MFAS-EY-C-1	MFAS-EY-C-5	MFAS-EY-C-10	MFAS-EY-C-20
Operating wavelength	nm	1530~1575			
Input power	mW	-3~+10			
Output power @0dBm Input power ¹	W	1	5	10	20
Noise figure @0dBm Input power	dB	<5.5			
Input/output isolation	dB	30			
Output power stability (8hrs) ²	%	±1			
Input power monitoring		Yes			
Output power monitoring		Yes			
Output power tunable		Yes			
Input fiber type		SMF 9/125um NA=0.13			
Output fiber type		SM fiber or LMA fiber			
Output fiber length	m	>1			
Optical connector		FC/APC (other options available)			
Output power tunable range	%	10~100			
Operating temperature	℃	0~+50	0~+30		
Storage temperature	℃	-40~+85			
Power supply	V _{AC}	100~240			
Power consumption (Max)	W	100			
Dimension ³		19" 2U			19" 3U

Specifications:

- Output power is optional, the typical power is 1W, 5W, 10W, 20W
- The output power stability is measured under 25°C after 30 minutes' warm-up.
- Module package is available.

Ordering Information:

- MFAS-EY-C-B-<PW>: SM
- MFAP-EY-C-B-<PW>: PM
- B: Benchtop
- PW: Output power in W, e.g.: 0.5-0.5W, 1-1W, 5-5W, 10-10W