



## MARS SERIES

MFAS-EY-C-PL: SM

MFAP-EY-C-PL: PM

### Features:

- High peak output up to 10KW
- Short pulse amplifying: 10ns/1MHz
- High stability, high reliability
- High optical-to-optical efficiency
- Output tunable
- Custom versions available

### Applications:

- Optical fiber communication
- Free space communication
- Atmosphere monitoring
- Environment monitoring
- Research & development

## 1.5um High Power Pulse Optical Fiber Amplifier

The MARS series 1.5um high power pulse optical fiber amplifiers of Connet Laser are eye-safe amplifier. The optical path structure is optimized according to short pulse signal amplification, thus suppressing the generation of ASE efficiently. This series of amplifiers employ high-power, high-performance multi-mode pump laser inside. The proprietary technology and peculiar devices guarantee the maximum optical-optical conversion efficiency and minimum nonlinear effects during the process of amplification.

The unique thermal treatment technology guarantees that the amplifiers can operate stably for a long time. The high-speed response protection circuit monitors the power of input and output signal automatically so that ensures the safety of the whole system.

The MARS series high power pulse optical fiber amplifiers include single-mode and polarization output. Different kinds of package type are available with benchtop or module. This series of amplifiers can be widely used in the areas of optical fiber communication, coherent combination and sensing and so on.

## Specifications:

Parameter	Unit	Specification		
		Min	Typ	Max
Part NO.		MFAS-EY-C-PL: SM    MFAP-EY-C-PL: PM		
Wavelength Range	nm	1530	1550	1563
Average output power	W	-	-	5
Peak output power	KW	-	-	10
Pulse width	ns	0.5	-	200
Repetition rate	KHz	1	-	1000
Operating mode		Pulse		
Output power tunable range	%	10	-	100
Output polarization		Random or linear polarization		
Polarization Extinction Ratio(PER)	dB	15	20	-
Output power stability(8hours)	%	-	±1	±2
Beam quality	M <sup>2</sup>	<1.2		
Input light isolation	dB	30	-	-
Output light isolation	dB	30	-	-
Output fiber type(SM)		SMF 9/125um NA=0.13		
Output fiber type(PM)		PM1550 or other		
Length of the output fiber	m	>1		
Optical connectors		FC/APC(other options available)		
Power supply(Benchtop)	VAC	170	220	260
Power consumption	W	-	-	150
Operation temperature	℃	0	-	35
Storage temperature	℃	-40	-	+85
Dimension	mm	420(L)×485(W)×150(H)		
Cooling mode		Air-Cooled		

## Specifications:

- The output power stability is measured under 25℃, 30 minutes after warm-up.

## Ordering information:

- MFAS-EY-C-<P>-PL: SM
- MFAP-EY-C-<P>-PL: PM
- C: Operating wavelength in nm, Example :1550nm
- P: Package, B-Benchtop, R-Rack-mount, M-Module



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