

PEFA-SP-C SERIES

PULSED ERBIUM FIBER AMPLIFIER

1.5 μm SHORT PULSE FIBER AMPLIFIER

FEATURES

- Femto and picosecond pulse amplification
- Pulse distortion free up to 1 KW
- Average power up to 33 dBm
- Operating wavelength from 1535 to 1565 nm
- Pulse repetition frequency from 10MHz to 100GHz
- Polarization maintaining available
- Choice of Turn Key easy to use benchtop or compact module

APPLICATIONS



High peak power generation / Non-linear fiber optics / High speed transmission systems / Super-continuum and pulse compression

1.5 μm

Description

The PEFA-SP-C series are designed to amplify femtosecond and picosecond pulses without pulse distortion.

These amplifiers do not change significantly the pulsewidth neither the spectral linewidth up 1KW of peak power.

Polarization maintaining versions are available.

The products are available in user-friendly turnkey benchtops for simple use in laboratory environment or compact modules controlled through RS232.

M 201



M 301



4 Platforms

B 201/ B 202



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1.5µm SHORT PULSE FIBER AMPLIFIER

Optical Specifications

@ 25°C

	Model				
	SP15	SP23	SP27	SP30	SP33
Mode of operation	Pulsed				
Optical pulse length	0.3 to 10 ps				
Operating wavelength	1535-1565nm			1545-1565nm	
Peak power *	up 1 KW for pulse distortion free				
Average input power	-15 to +5 dBm				
Pulse repetition frequency	10 MHz to 100 GHz				
Dispersion	< 35 fs/nm				
Noise figure (-6dBm, 1550nm)	< 5dB for SM, < 5.5dB for PM			< 5.5dB for SM, < 6dB for PM	
Polarization	Random (SM) or linear (PM with PER>20dB)				
Control mode	ACC				
Optical port fiber type	SMF or Panda				
Input/output termination	FC/APC, SC/APC, FC/SPC, SC/SPC, C1			FC/APC, SC/APC, FC/SPC, SC/SPC, E2PS, C1	
Power consumption**	<4W	<10W	<20W	<30W	<50W
Associated platform	B201/M201			B202/M301	

Platform Specifications

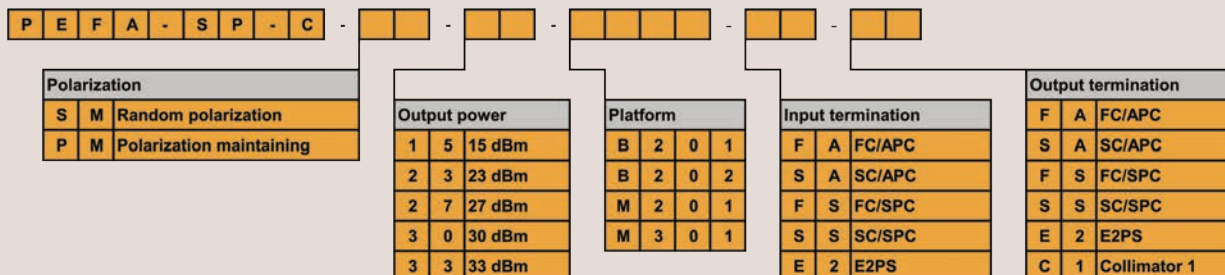
Platform type

	Platform type		
	B201/B202	M201	M301
Voltage	84 to 264 VAC, 47-63 Hz	5 VDC	21 to 24 VDC
Control Interface	Front panel and RS232	RS232	
Optical interface	3mm PVC, 1m for input and 0.35m for output	900µm PVC, 1m for input and 0.35m for output	3mm PVC, 1m for input and 0.35m for output
Warm-up time	< 5min		
Dimensions	88 x 448 x 446 mm, 2U	150 x 120 x 25 mm	230 x 130 x 26 mm
Weight	< 15 kg	< 500 g	< 1200g
Operating case temperature	+15°C to +35°C	-20°C to +65°C	
Storage temperature	-20°C to +55°C	-40°C to +85°C	

*For each model, different sets of pulsewidth, repetition rate and average power are possible

** Power consumption for modules

Ordering information



All products comply with IEC 60825-1 and FDA (21 CFR Subchapter J) laser safety standards.

Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to then highest technical standards. As a result, the specifications in this document are subject to change without notice.