EOLA® SERIES

EYE-SAFE LONG PULSE AMPLIFIER

FEATURES

- *Energy per pulse Up to 100 µJ*
- *Peak power Up to 250W*
- *Pulse duration from 200 to 400 ns*
- *Pulse repetition frequency from 10 KHz to 20 KHz*
- *Polarization maintaining*
- *Diffraction limited or $M^2 < 1.5$*
- *Operating temperature range -10°C to +65°C*

APPLICATIONS

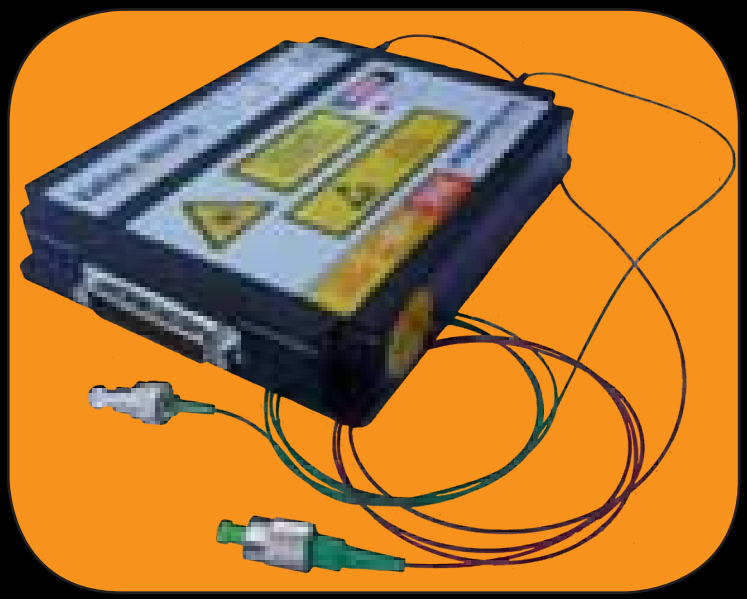
- *Aerosol detection*
- *2D/3D wind profiler*
- *Weather monitoring*
- *Pollution monitoring*

The EOLA series is a range of eye-safe polarization maintaining fiber amplifier designed for long pulse operation.

The OEM module delivers high energy per pulse up to 100 µJ.

The output beam is diffraction-limited output fiber with $M^2 < 1.5$.

This series is ideal for Doppler heterodyne LIDAR systems.



KEOPSYS
THE LIGHT TOUCH

EOLA® SERIES

EYE-SAFE LONG PULSE AMPLIFIER

	Model		
Optical	**010-200-020**	**050-200-010**	**100-400-010**
Mode of operation	Pulsed		
Operating Wavelength	1550 nm	1550 nm	1550nm
Energy per pulse	10 µJ	50 µJ	100 µJ
Peak power	50 W	250 W	250 W
Average input power	200 µJ		
Average output power	200 mW	500 mW	1000 mW
Pulse repetition frequency	20 kHz	10 kHz	
Pulse duration	200 ns	200 ns	400 ns
Pigtail length	> 30 cm		
Polarization	Linear		
Polarization extinction ratio	> 20 dB	> 17 dB	
Input Fiber type	Panda SM		
Output Fiber type	Panda SM	Panda LMA	
Beam Quality	M^2 < 1.1	M^2 < 1.5	
Electrical			
DC Voltage	5 V	24 V	
Power consumption	< 20 W	< 30 W	< 40 W
Interface	RS232		
Warm-up time	5 min max		
Environmental			
Operating case temperature	-10°C to +65°C		
Storage temperature	-40°C to +85°C		
Packaging			
Dimensions	150 x 120 x 25 mm	330 x 260 x 30 mm	
Weight	< 0.6 Kg	< 3 Kg	

ORDERING INFORMATION

KPS-EOLA-1550-vvv-www-xxx-PM-yy-zz

- vvv = Energy in µJ
- www = Pulse duration in ns
- xxx = Pulse repetition frequency in KHz
- ***yy = Input connector (FC = FC/SPC, FA = FC/APC***
- ***zz = Output termination (FA = FC/APC, CO = Collimator)***

Example : KPS-EOLA-1550-010-200-010-PM-FA-CO
Energy = 10 µJ
Pulse duration = 200 ns
Pulse repetition frequency = 10 KHz
Input connector = FC/APC
Output termination = Collimator

Custom solutions upon request
Please contact Keopsys for more 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.

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