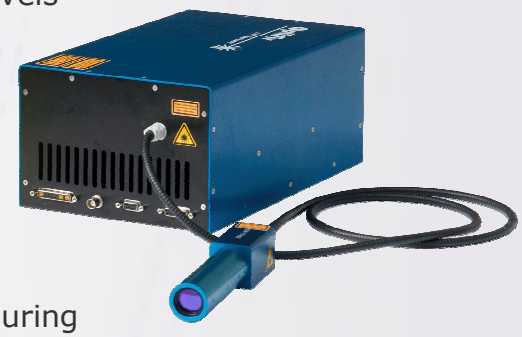
APFL-1064 Series

Short Pulse, High-Power 1-micron Fiber Lasers

Optisiv **APFL-1064 Series** is maintenance-free short pulse, high power fiber lasers in a MOPA (Master Oscillator Power Amplifier) architecture that allows adjustable repetition rate, pulse duration, and pulse shape. The high beam quality, short pulse width, and high peak power levels offer superb performances for material processing, solar cell manufacturing, and marking applications. Furthermore, the narrow spectral width and polarization maintaining architecture allows efficient wavelength conversion to Green (532 nm).

Key Features:

- Central wavelength: 1064 nm
- Output avg. power: Up to 30 W
- Adjustable pulse duration: <1-500 ns
- Adjustable repetition rate up to MHz levels
- High beam quality
- Linear polarization
- Air-cooled package
- Maintenance free



Applications:

- Solar cell and semiconductor manufacturing
- Material processing (Micromachining, Drilling, Welding)
- Marking
- Frequency conversion

A flexible, diverse portfolio, for custom laser systems - Optisiv prides itself on providing its customers with total freedom of choice when it comes to purchasing a fiber laser solution.

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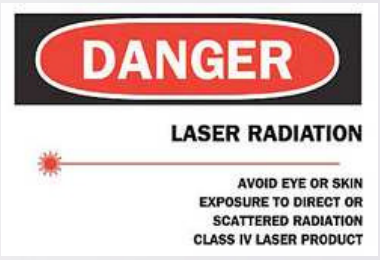
Technical Specifications

Parameter	Units	APFL-1064-10	APFL-1064-20	APFL-1064-30
Center Wavelength	nm	1064 +/-5 (fixed)		
Min. Average Power	W	10	20	30
Pulse Width	ns	1-500		
Repetition Rate	KHz	100-1000		
Pulse Energy @100kHz	mJ	0.1	0.2	0.3
Max Peak Power	kW	10		
Spectral Width	nm	<1	<2	<2
Beam Quality, M^2		<1.5		
Polarization		Linear		
Output fiber length	m	1-3		
Operating Temp.	°C	0-40		
Storage Temp.	°C	-20-70		
Operating Voltage	VDC	24		
Max. Power Consumption	W	150	200	300
Dimensions	mm	205(w)x340(d)x140(h)		
Weight	kg	7	8	9

Options

- Output beam expander
- Red aiming beam



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