

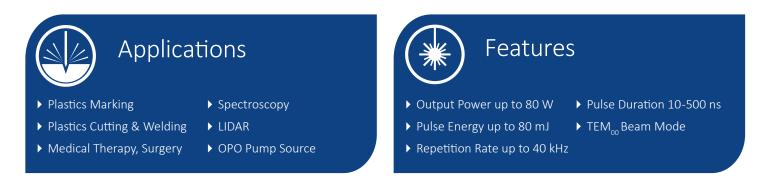


HLPN-2050/2060 Series Ho:YLF Hybrid Fiber-to-Bulk Nanosecond Lasers

NEW PRODUCT

Acousto-optically Q-switched Optical Heads





IPG Photonics' HLPN-2050/2060 Holmium:YLF laser provides 10 - 500 nanosecond pulses at ~2.05 μ m with pulse energies up to 80 mJ, output powers up to 80 W at repetition rates up to 40 kHz. The Q-switched Ho:YLF head is pumped by IPG's efficient and reliable Thulium fiber laser. The HLPN-2050/2060 2.05 μ m pulsed laser addresses a wide range of materials processing, scientific and medical applications.



HLPN-2050/2060 Series

Ho:YLF Hybrid Fiber-to-Bulk Nanosecond Lasers

Optical Characteristics	HLPN-20-10-15	HLPN-40-10-40	HLPN-80-10-80
Wavelength*, nm		2050/2060	
Linewidth, nm		<1	
Polarization		Linear, >500:1	
Max. Average Power, W	15	40	80
Max. Pulse Energy, mJ	20 (0-500 Hz) 10 (at 1.5 kHz) 1 (at 15 kHz)	40 (0-500 Hz) 20 (at 2 kHz) 2 (at 20 kHz)	80 (0-500 Hz) 40 (at 2 kHz) 4 (at 20 kHz)
Pulse Width, ns		10-500	
Max. Peak Power, MW	2	4	8
Repetition Rate, kHz		0-40	
Beam Quality, M ²	<1.1	<1.2	<1.3
Output Beam Size, mm	~1.1	~1.3	~1.5

General Characteristics				
Pump Laser	50 W Tm Fiber Laser	120 W Tm Fiber Laser	(2) 120 W Tm Fiber Laser	
Laser Head Dimensions (W \times D \times H), mm	170 × 130 × 40	320 × 325 × 80	320 × 430 × 80	
Pump Laser Cooling**	Water-cooled***			
Laser Head Cooling	Conductive	Water-cooled****		
Supply Voltage 50-60 Hz, VAC	Single-phase, 110-240	Single-phase, 208-240		

* Nonlinear conversion to 2nd through 8th harmonics is available upon request

** Water Chiller is not included

*** Optional Air-cooling is available upon request

**** Optional Air or conductive cooling is available upon request

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MAX. AVERAGE OUTPUT POWER: 160 W MAX. PEAK OUTPUT POWER: 16 kW PULSE DURATION: 10-500 ns PULSE REPETITION RATE: 0-406 Hz WAVELENGTH RANGE: 1800-2200 nm DANGER - INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 LASER PRODUCT IEC 60825-1:2014

The Power to Transform® 9.2.3 R4 2/19