

ULPF/ULPP 0.6-5 ps, 30 W

Ultraviolet Ultrafast Fiber Hybrid Lasers

Output Power up to 30 W
0.6 - 5 picoseconds



FEATURES

- ▶ Wavelength 343 nm
- ▶ Output Power up to 30 W
- ▶ Pulse Duration Options 0.6 to 5 ps
- ▶ Pulse Energy up to 30 μ J
- ▶ Repetition Rate up to 5.5 MHz
- ▶ Low-maintenance and Rugged Design



APPLICATIONS

- ▶ Precision Micromachining
- ▶ LED Dicing
- ▶ Microdrilling
- ▶ Solar Cell Structuring
- ▶ Thin Film Ablation
- ▶ Fine Tube Cutting
- ▶ Photomask Cutting
- ▶ Specialty Marking
- ▶ Glass, Silicon, Ceramics, Polymer and Composite Material Processing



ULPF and **ULPP** ultraviolet hybrid-fiber ultrafast lasers provide high peak power with scalable average output power of 30 W and customer selected pulse durations in the range of 600 fs to 5 ps at full operational repetition rate range of 50-5500 kHz. The fiber design allows for the adjustment of peak power and/or pulse repetition rate without affecting any of the output beam parameters. IPG's novel fiber lasers are much more efficient, compact and easy to integrate into OEM equipment than conventional lasers now on the market. They are ideal for applications in precision micromachining. Customer can select models within specified maximum power, maximum pulse energy and pulse durations in 600 fs to 5 ps range. Shorter pulse durations and pulse energies are available upon request.

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Ultraviolet Ultrafast Fiber Hybrid Lasers

Optical Characteristics*		ULPF-30-750-30-R	ULPP-30-1-30-R
Wavelength, nm		343	
Max. Average Power, W		Up to 30	
Pulse Energy, μ J		Up to 30	
Pulse Duration, ps		0.6 - 0.9	1-5
Repetition Rate, kHz		50-5500	
Beam Quality, M^2		<1.3	

General Characteristics		
Control Unit Dimensions (W x D x H), mm		448 x 580 x 133
Optical Head Dimensions (W x D x H), mm		82 x 271 x 124
Cooling		Water
Supply Voltage, VAC		100-240, Single-phase 50-60 Hz
Power Consumption, W		<1000



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MAX. AVERAGE OUTPUT POWER: 60 W
 MAX. PEAK OUTPUT POWER: 60 MW
 PULSE DURATION: 1-5 ps
 PULSE REPETITION RATE: 50-2000 kHz
 WAVELENGTH RANGE: 330-1200 nm

DANGER - INVISIBLE LASER
 RADIATION AVOID EYE OR SKIN
 EXPOSURE TO DIRECT OR
 SCATTERED RADIATION
 CLASS 4 LASER PRODUCT
 IEC 60825-1:2014

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