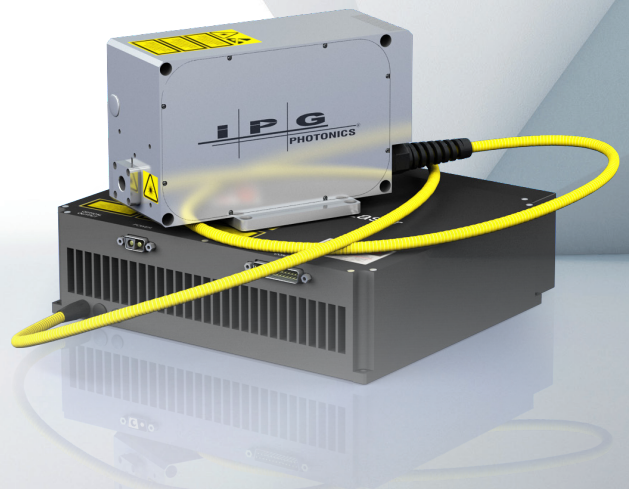


ULPN-355-M

Ultraviolet Pulsed Fiber Lasers



FEATURES

- ▶ Wavelength 355 nm
- ▶ Output Power up to 10 W
- ▶ Pulse Energy up to 10 μ J
- ▶ Repetition Rate up to 1 MHz
- ▶ Pulse Duration 1.5 ns
- ▶ Single Pulse or 3-pulse Burst Pulse Mode
- ▶ Peak Power 10 kW
- ▶ Beam Quality $M^2 < 1.4$
- ▶ Air-cooled module



APPLICATIONS

- ▶ Micromachining
- ▶ Polymer Marking
- ▶ Surface Texturing
- ▶ Si Ablation
- ▶ Scribing
- ▶ Solar/Photovoltaics

ULPN-M Series ultraviolet nanosecond fiber lasers provide high peak power with scalable average output power up to 10 W, 1.5 ns pulse duration at full operational repetition rate range of 10-1000 kHz. The all fiber format allows for the adjustment of pulse energy and/or pulse repetition rate without affecting any of the output beam parameters.

IPG novel fiber lasers are much more efficient and compact than conventional lasers now on the market, and are ideal for applications in the solar/ photovoltaic arena, resistor trimming and marking of transparent materials. The short wavelength, short pulse duration and high peak power result in very small heat affected zone.

ULPN-355-M

Ultraviolet Pulsed Fiber Lasers

Optical Characteristics	ULPN-355-3-M	ULPN-355-5-M	ULPN-355-6-M	ULPN-355-10-M*
Wavelength, nm	355			
Mode of Operation	Pulsed			
3-pulse Burst Mode	Yes	No	Yes	Yes
Average Power, W	3	5	6	10
Max. Pulse Energy, μJ	10; 20 in burst mode	10	6; 20 in burst mode	10; 20 in burst mode
Pulse Duration, ns	1.5			
Peak Power, kW	up to 10			
Repetition Rate, kHz	10-300	10-500	10-1000	
Beam Quality, M²	<1.4			

*PRELIMINARY

General Characteristics	ULPN-355-3-M	ULPN-355-5-M	ULPN-355-6-M	ULPN-355-10-M
Module Dimensions (W × D × H), mm	270 × 256 × 88			
Optical Head Dimensions (W × D × H), mm	98 × 245 × 140			
Cooling	Air-cooled			Air-cooled module Water-cooled head
Supply Voltage, VDC	24			
Power Consumption, W	<70			



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[IPGPhotonics.com/contact](https://www.ipgphotonics.com/contact)
www.ipgphotonics.com

MAX. AVERAGE OUTPUT POWER: 20 W
 MAX. PEAK OUTPUT POWER: 20 kW
 PULSE DURATION: 1.5 ns
 PULSE REPETITION RATE: 10-1,000 kHz
 WAVELENGTH RANGE: 340-1080 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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