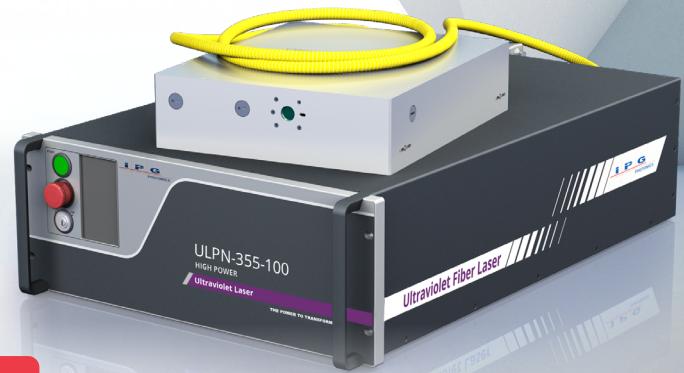


ULPN-355-100

UV Single-mode Fiber Lasers



NEW



FEATURES

- ▶ Wavelength 355 nm
- ▶ Output Power up to 100 W
- ▶ Beam Quality $M^2 < 1.5$
- ▶ Power Stability $\pm 2\%$
- ▶ Low Power Consumption
- ▶ Compact Packaging
- ▶ Linear Polarization
- ▶ Industrial Performance



APPLICATIONS

- ▶ Laser Direct Imaging (LDI)
- ▶ Solar Cell Manufacturing
- ▶ Wafer Scribing and Patterning
- ▶ LTPS Display Annealing
- ▶ Stereo Lithography
- ▶ Semiconductor Wafer and Mask Inspection

IPG Photonics launches a new family of high power UV single-mode fiber lasers operating at 355 nm with an average output power of up to 100 W. The ULPN-355 series utilizes extremely reliable and efficient fiber laser technologies and exploits high repetition rate operation regime to achieve unprecedented UV power levels with low power consumption and a compact footprint. All-fiber technology enables a wide range of operating output powers while maintaining single-mode beam quality and excellent power stability.

The result is a rugged, industrial-grade, high power UV fiber laser with unmatched performance ready for implementation in various applications.

ULPN-355-100

UV Single-mode Fiber Lasers

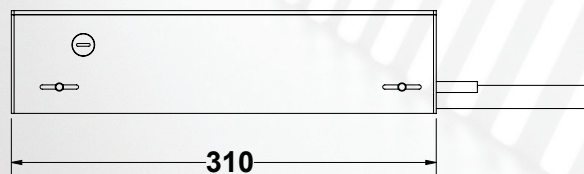
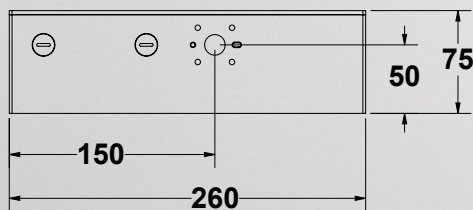
Optical Characteristics	ULPN-50	ULPN-100
Wavelength, nm	355	
Mode of Operation	Pulsed QCW	
Average Power, W	50	100
Power Tunability, %	1-100	
Pulse Duration, ns	~1.5	
Repetition Rate, MHz	20	40
Power Stability*, %	±2	
Polarization	Linear, >100:1	
Beam Quality, M ²	<1.5	

* Over 8 hours, T= const.

General Characteristics

OEM Module Dimensions (W × D × H),	332 × 527 × 72	
Rack Mounted Console (W × D × H), mm	448 × 678 × 176	
Optical Head Dimensions (W × D × H),	260 × 310 × 75	
Cooling	Water-cooled	
Supply Voltage, OEM	48 VDC	
Supply Voltage, Rack Mounted	200-240, 50-60 Hz	
Power Consumption, W	<800	<1400

*The rack unit dimensions refer to sizes of consoles without handles, connectors and other extending parts.



+1 (508) 373-1100;
IPGPhotonics.com/contact
www.ipgphotonics.com

MAX. AVERAGE OUTPUT POWER: 400 W
 MAX. PEAK OUTPUT POWER: 4 kW
 PULSE DURATION: 1.5 nps
 PULSE REPETITION RATE: 80 kHz
 WAVELENGTH RANGE: 355, 532, 1064 nm

**DANGER - INVISIBLE LASER
 RADIATION AVOID EYE OR SKIN
 EXPOSURE TO DIRECT OR
 SCATTERED RADIATION
 CLASS 4 LASER PRODUCT**

IEC 60825-1:2014