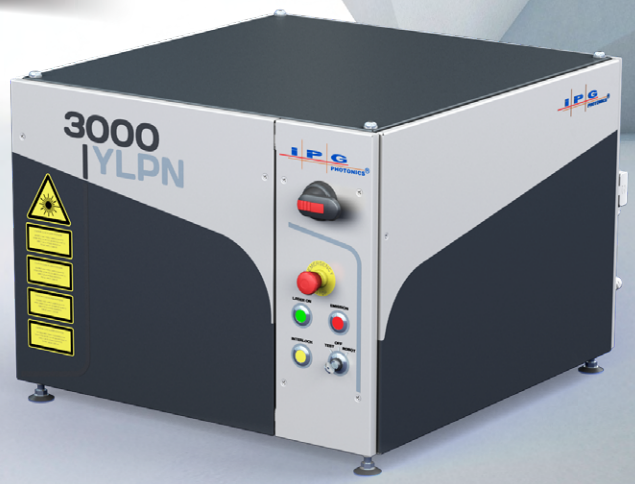
YLPN-100-25×100-3000-S

Ultra-High Power Nanosecond Fiber Lasers

Adjustable Pulse Duration

NEW



FEATURES

- Average Power up to 3 kW
- Adjustable Pulse Duration
- Round or Square Fiber Core
- Repetition Rate up to 300 kHz
- Rugged Design
- Integrated Beam Switch Option*

* YLPN-S laser models are offered with integrated beam switch option from 2 to 4 output channels, enabling processing multiple workstations in time or energy sharing modes.

APPLICATIONS

- Paint Stripping
- Coating Removal
- Surface Treatment
- Texturing

YLPN-S Nanosecond Pulsed Fiber Lasers offer variable pulse durations from 25 to 100 nanoseconds. The laser power can be adjusted in a wide range of pulse repetition rates independent of the pulse energy. Average output powers are up to 3 kW and pulse repetition rates vary from 2 to 300 kHz. Integrated beam switch option enables processing for multiple workstations in time or energy sharing modes.

Housed in rugged sealed cabinets, these compact efficient maintenance-free systems are designed to operate in harsh industrial manufacturing environments. Powerful YLPN-S lasers are optimized for high throughput surface treatment applications such as paint stripping, coating removal, surface cleaning and texturing.

YLPN-100-25×100-3000-S

Ultra-High Power Nanosecond Fiber Lasers

Optical Characteristics	YLPN-25x100-1000-S	YLPN-25x100-2000-S	YLPN-25x100-3000-S
Wavelength, nm	1064		
Mode of Operation	Pulsed		
Max. Average Power*, kW	1	2	3
Power Tunability, %	10-100		
Preset Pulse Duration Modes, ns	25, 50, 70, 100		
Max. Pulse Energy, mJ	100		
Pulse Repetition Rate, kHz	2-50		2-300
Process Fiber Core Options	Round or Square		
Process Fiber Core Diameter, µm	600 (default) or 400 (option)		
Beam Parameter Product, mm × mrad	30 Round Core; 45 Square Core		

*Higher average power up to 5 kW is available upon request at a fixed 120 ns pulse duration.

General Characteristics	1 kW	2kW	3 kW
Control Unit Dimensions (W × D × H), mm	Single Output: 780 × 806 × 558 Beam Switch Option: 1006 × 806 × 806		
Weight, kg	Single Output: 160 Beam Switch Option: 250-300		
Connector Type	HLC-8, QBH Compatible		
Control Unit Cooling	Water		
Chiller Cooling Capacity, kW	3.0	4.5	6.0
Supply Voltage, 3-phase, 50-60 Hz, VAC	400-480		
Power Consumption, kW	4	6.5	9.0

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