

YLPN-100-30x100-1000

High Power Nanosecond Ytterbium Fiber Laser

NEW PRODUCT



Applications

- ▶ Paint Stripping
- ▶ Coating removal
- ▶ Surface Treatment
- ▶ Texturing

Features

- ▶ Average Power 100-1000 W
- ▶ Adjustable Pulse Duration
- ▶ Round or Square Fiber Core
- ▶ Repetition Rate up to 50 kHz
- ▶ Rugged Design

IPG Photonics' YLPN-HP Nanosecond Fiber Laser offers variable pulse durations in 30-100 nanosecond range. The laser power can be adjusted in a wide range of pulse repetition rates independent of the pulse energy. Average output powers vary from 100 W to 1 kW and the repetition rates vary from 2 to 50 kHz. Designed for OEM applications, these compact, efficient, maintenance-free modules are packaged in rugged 19" rack-mounted units. Powerful YLPN-HP lasers are optimized for high throughput surface treatment applications such as paint stripping, coating removal, surface cleaning and texturing.

YLPN-100-30x100-1000

High Power Nanosecond Ytterbium Fiber Laser

Optical Characteristics

| | |
|--------------------------------------------|-------------------------------|
| Wavelength, nm | 1064 |
| Mode of Operation | Pulsed |
| Max. Average Power, W | 1000 |
| Power Tunability, % | 10-100 |
| Preset Pulse Duration Modes, ns | 30, 40, 60, 100 |
| Repetition Rate, kHz | 2-50 |
| Process Fiber Core Options | Round or Square |
| Process Fiber Core Diameter, μm | 600 |
| Beam Parameter Product, mm x mrad | 30 Round Core; 45 Square Core |

General Characteristics

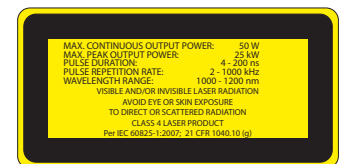
| | |
|----------------------------------------|-----------------------|
| Control Unit Dimensions, mm | 483 x 400 x 665 |
| Connector Type | HLC-8, QBH Compatible |
| Control Unit Cooling | Water-cooled |
| Chiller Cooling Capacity, kW | 3 |
| Supply Voltage, 3-phase, 50-60 Hz, VAC | 400-480 |
| Power Consumption, kW | <4 |

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