

YLS-100000

High Power Ytterbium Fiber Laser

NEW PRODUCT



Applications

- ▶ Remote Dismantling of Industrial Construction
- ▶ Remote Welding of Very Thick Materials
- ▶ Advanced Applications
- ▶ Deep Penetration Welding



Features

- ▶ World's First Industrial Grade CW 100 kW Laser
- ▶ Feed Fiber 300 μm Core Diameter, 10 m Length
- ▶ HLC-24 Optical Output IPG Connector
- ▶ Optional Integrated Fiber-to-fiber Coupler (FFC), Process Fiber 500 μm Core Diameter, up to 50 m Length
- ▶ Wall-plug Efficiency: 35%
- ▶ Independent Water-cooling of Laser Cabinets

Introducing the most powerful fiber laser ever produced: IPG Photonics' YLS-100000.

IPG's newest laser is the world's first industrial laser that combines unprecedented 100 kW output power, continuous wave operation mode with very good beam quality. Incorporating a robust, industrial design in a compact cabinet which is easy to transport, the laser has a power to volume ratio of 18.6 kw/m³, a footprint of 2.9 m² and a weight of 3600 kg.

IPG's groundbreaking new laser opens new opportunities for applications development in deep penetration welding, remote dismantling of industrial construction and thick section cutting. It can be supplied with a wide range of delivery fibers, making it the most versatile laser available for high power applications.

YLS-100000

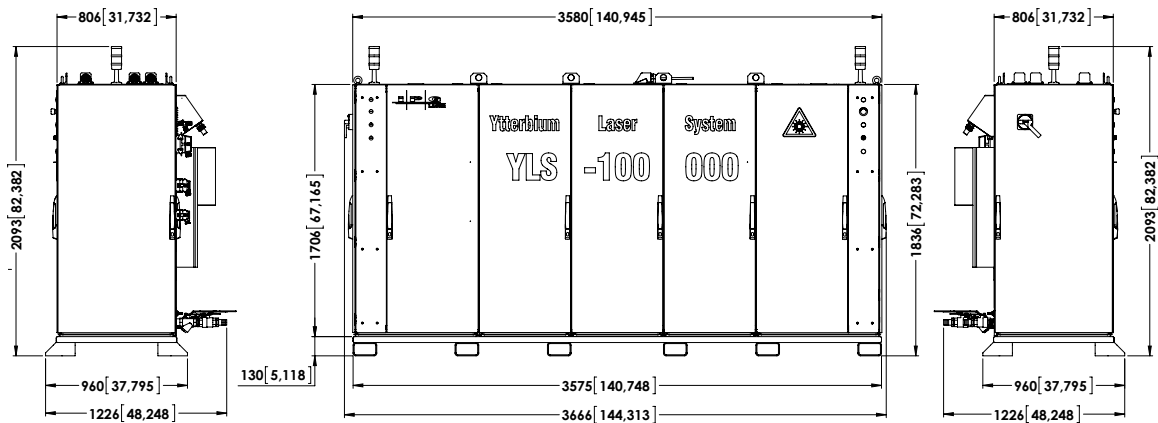
High Power Ytterbium Fiber Laser

Optical Characteristics

Wavelength, nm	1070 ± 5
Mode of Operation	CW/ Modulated
Modulation Frequency, kHz	<5
Max. Average Power, W	100000
Power Tunability, %	10-100
Power Stability, %	± 2
Beam Parameter Product, mm x mrad	<16 @ 300 μm feeding fiber <25 @ 500 μm feeding fiber

General Characteristics

Cabinet Dimensions, mm	3580 x 806 x 1836
Weight, kg	3600
Cooling	Water-cooled, 500-750 l/ min.
Supply Voltage, VAC	400-480 3-phase 50/60 Hz
Max. Power Consumption, kW	290



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MAX. AVERAGE OUTPUT POWER: 200,000 W
 WAVELENGTH RANGE: 900 - 1200 nm
 VISIBLE AND/OR INVISIBLE LASER RADIATION
 AVOID EYE OR SKIN EXPOSURE TO
 DIRECT OR SCATTERED RADIATION
 CLASS 4 LASER PRODUCT
 Per IEC 60825-1:2007-03; 21CFR1040.10(g)

The Power to Transform®