



YLS-U Series

Ultra-compact Ytterbium Fiber Lasers

NEW PRODUCT



Applications

- ➤ 2D/3D Thin and Thick Cutting
- ➤ Stainless and Mild Steel Cutting
- ► Processing Copper, Brass and Aluminum
- ▶ Welding



Features

- ▶ Output Power 1-10 kW
- ▶ Ultra-compact Size
- ► Excellent Beam Parameter Product
- ► Constant BPP over Entire Power Range
- ▶ Wall-plug Efficiency >40%
- Fiber Delivery 50, 100, 150 μm

- ▶ Internal Dehumidifier
- ► Modular 'Plug and Play' Design
- ► Rugged and Easy to Install
- ► Maintenance-free Operation
- ► Cost-effective Cutting System



IPG's NEW YLS-U Series is developed specifically for applications where laser system size is critical. YLS-U laser provide up to 10 kW average power in the smallest form factor available on the market. Having full featured interfaces and safety electronics of the new generation IPG fiber lasers, YLS-U design is cost/performance optimized, making it an ideal choice for emerging markets. The YLS-U lasers can be easily integrated within cutting machines. Internal dehumidifier enables the laser to be used in the harshest of production environments.

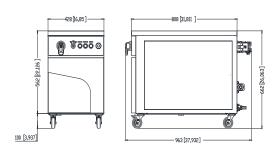


YLS-U Series

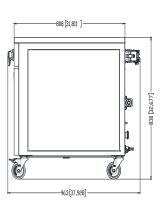
Ultra-compact Ytterbium Fiber Lasers

Optical Characteristics										
Wavelength Range, nm	1074 ±6									
Mode of Operation					CW/Mo	dulated				
Modulation Frequency, kHz	10									
Max. Average Power*, kW	1	2	3	4	5	6	7	8	9	10
Power Tunability, %	10-105									
Power Stability over 8 hrs, %	±1 Typ.									
Output Fiber Core Diameter, μm	50, 100, 150, 200									
Beam Parameter Product, mm × mrad	2.0, 3.3, 5.0, 6.0									

General Characteristics	
Dimensions (W × D × H), mm	1-3 kW: 430 × 804 × 568 4-6 kW: 1005 × 804 × 702 7-10 kW: 430 × 804 × 900
Weight, kg	140, 200, 250
Cooling	Water
Supply Voltage, 3-phase, 50/60 Hz, VAC	400-460
Wall-plug Efficiency, %	>40







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MAX. AVERAGE OUTPUT POWER: 20 kW
MAX. PEAK OUTPUT POWER: 20 kW
PULSE DURATION: 0.2-2 ms
PULSE REPETITION RATE: 50 Hz-10 kHz
WAVELENGTH RANGE: 900-1200 nm

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

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