



YLS-3000-U

1-3 kW Ytterbium Fiber Lasers

NEW PRODUCT



Applications

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



Features

- ▶ Output Power 1, 2 and 3 kW
- ▶ Excellent Beam Parameter Product
- ▶ Constant BPP over Entire Power Range
- ▶ Small Focus over Large Working Distance
- ▶ Wall-plug Efficiency >40%
- ▶ Super-compact Size
- ▶ Fiber Delivery 50, 100, 150 μ m
- ▶ Internal Dehumidifier
- ▶ Modular 'Plug and Play' Design
- ▶ Rugged and Easy to Install
- ▶ Maintenance-free Operation
- ▶ Cost-effective Cutting System

The Smallest Form Factor 3 kW Industrial Fiber Laser



IPG's YLS-U series is developed specifically for applications where laser system size is critical. Having full featured interfaces and safety electronics of CUT series lasers, this design is cost/performance optimized, making it an ideal choice for emerging markets. Supplied in the smallest form factor available on the market in its output power class, lasers can be easily integrated within cutting machines.

Internal dehumidifier enables the laser to be used in the harshest of production environments.

YLS-3000-U

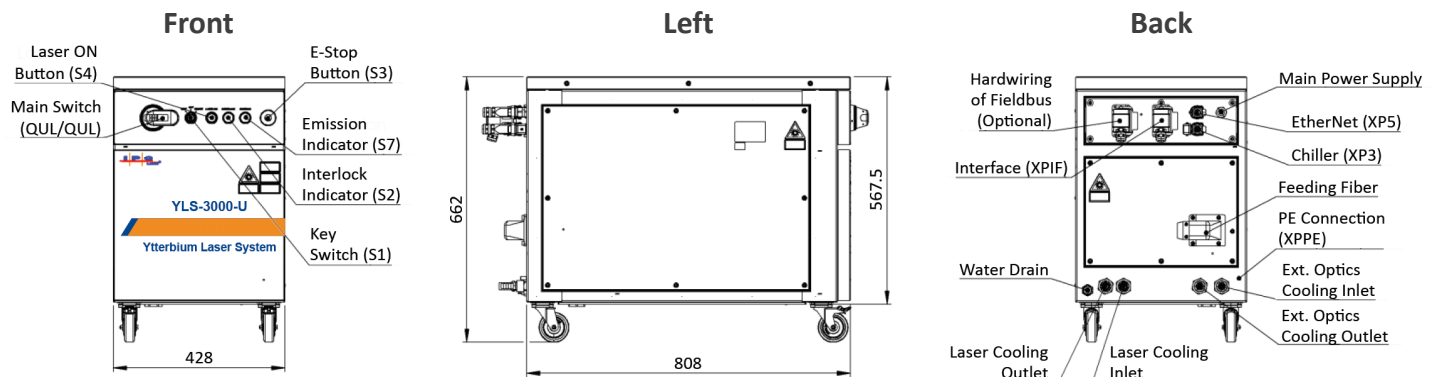
1-3 kW Ytterbium Fiber Lasers

Optical Characteristics

Central Wavelength Range, nm	1070 ±10
Mode of Operation	CW/Modulated
Modulation Frequency, kHz	0-5
Max. Average Power, kW	1, 2, 3
Power Tunability, %	10-100
Power Stability, %	±1
Output Fiber Core Diameter, μm	50, 100, 150
Beam Parameter Product, mm × mrad	1.9, 3.5, 5.0

General Characteristics

Cabinet Dimensions (W × D × H), mm	428 × 808 × 567.5
Cooling	Water
Supply Voltage, 3-phase, VAC	400-480 3-phase, 50/60 Hz
Wall-plug Efficiency, %	40
Weight, kg	130



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MAX. AVERAGE OUTPUT POWER: 6,000 W
WAVELENGTH RANGE: 900-1200 nm

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

IEC 60825-1:2014

The Power to Transform®

1.1.6 R5 11/18