



YLS-10000-ECO

High Efficiency Ytterbium Fiber Lasers



Applications

- ▶ 2D/3D Thin and Thick Cutting
- ▶ Processing Copper, Brass and Aluminum
- ▶ Welding
- ▶ Surface Treatment



Features

- ▶ CW Output Power 10 kW @ Workpiece
- ▶ Wall-plug Efficiency >50%
- ▶ Fiber Delivery 100, 150 or 200 μm
- ▶ Hot Redundancy
- ▶ Modulation up to 5 kHz
- ▶ Maintenance-free Operation
- ▶ Cost-effective Cutting System
- ▶ Record Reliability
- ▶ Compact, Rugged Design



IPG Photonics' YLS-ECO family is a new generation of kW class high brightness Ytterbium fiber lasers with record wall-plug efficiency of over 50%. **IPG's ECO series offers a new, unparalleled level of reliability.** The ECO series is perfectly suited for applications that cannot tolerate **any downtime or service intervention.**

IPG's YLS-ECO lasers mark another 'first' for the company, in providing the highest efficiency, most reliable industrial lasers available. The YLS-ECO can be used in **all high power application areas**, including cutting, welding, brazing, cladding and surface treatment.

YLS-10000-ECO

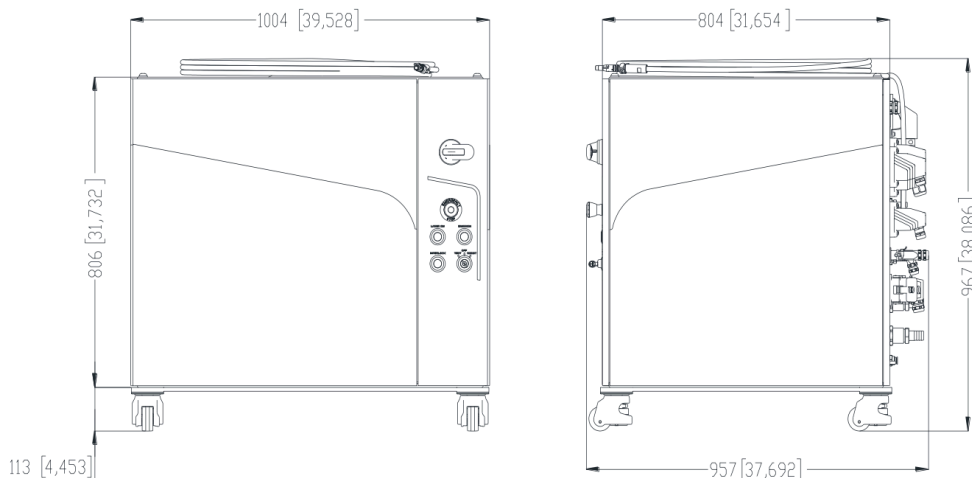
High Efficiency Ytterbium Fiber Lasers

Optical Characteristics

Wavelength, nm	1070 ±5
Mode of Operation	CW/Modulated
Modulation Frequency, kHz	0-5
Max. Average Power, W	10000
Power Tunability, %	10-100
Power Stability, %	±2
Output Fiber Core Diameter, μm	100, 150, 200
Beam Parameter Product, mm × mrad	3.8, 5.2, 7.0

General Characteristics

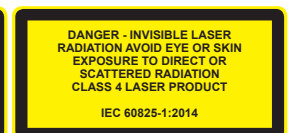
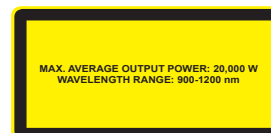
Cabinet Dimensions (W × D × H), mm	1004 × 806 × 806
Weight, kg	410-440
Supply Voltage, VAC	400-480 3-phase, 50/60 Hz
Wall-plug Efficiency, %	>50



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