

YLS-ECO SERIES

Highest-Efficiency High-Power Fiber Lasers

IPG ECO SERIES
FIBER LASERS ARE UP TO

2X

MORE ENERGY EFFICIENT
THAN OTHER FIBER LASERS

NEW



FEATURES

- ▶ 20 - 30 kW Continuous Wave Laser Power
- ▶ **50% Energy Efficient**
- ▶ Low Operating Cost
- ▶ Maintenance-free Operation
- ▶ Record Reliability & Stability
- ▶ Compact & Rugged Design



APPLICATIONS

- ▶ 2D/3D Thin & Thick Cutting
- ▶ Processing Copper, Brass & Aluminum
- ▶ Stainless & Mild Steel Cutting
- ▶ Welding
- ▶ Drilling
- ▶ Cladding
- ▶ Brazing
- ▶ Heat Treating



YLS-ECO high-power fiber lasers offer the **highest energy efficiencies** with unmatched reliability. Less input power required **dramatically reduces energy costs** without sacrificing output power.

YLS-ECO high-power fiber lasers offer **industry record energy efficiencies over 50%** paired with unmatched reliability and long-term power stability.

YLS-ECO high-power lasers are up to **2X more energy efficient** than the competition. Lower energy consumption **dramatically reduces operating costs** and chiller demands, making return on investment faster. YLS-ECO Series unparalleled reliability is perfectly suited for applications that cannot tolerate any downtime or service intervention. YLS-ECO excellent long term power stability ensures year after year consistent processing quality in all high power applications including cutting, welding, brazing, cladding and surface treatment.

YLS-ECO SERIES

Highest-Efficiency High-Power Fiber Lasers

Optical Characteristics	
Wavelength, nm	1074 ±6
Mode of Operation	Continuous Wave/Modulated
Modulation Frequency, kHz	0-5
Max. Average Power, kW	20, 30
Power Tunability, %	10-100
Power Stability, %	±2
Output Fiber Core Diameter, μm	100, 150, 200
Beam Parameter Product, mm × mrad	3.9, 5.5, 6.5

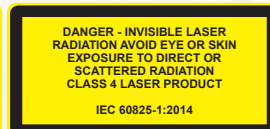
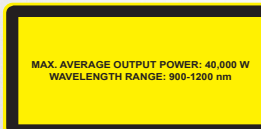
General Characteristics	20 kW	30 kW
Cabinet Dimensions (W × D × H), mm	1007 x 806 x 805	1007 x 808 x 1380
Weight, kg	600	750
Supply Voltage, VAC	400-480 3-phase, 50/60 Hz	
Energy Efficiency, %	50	

	 IPG	Other Fiber Laser	IPG 30 kW ECO Energy Savings
Power Consumption	40 kW	60 kW	*Annual Energy Savings \$18,590
Energy Efficiency	50%	33%	3 Year Energy Savings \$37,180
Cooling Capacity	20 kW	41 kW	5 year Energy Savings \$55,770
Laser Energy Cost	22,560 USD	34,180 USD	
Chiller Energy Cost	6,770 USD	13,740 USD	
Total Energy Cost	29,330 USD	47,920 USD	

*Savings example based on energy cost \$0.16/kWh, 75% duty cycle and 16 hour/day operation. Customer savings varies by actual energy cost, duty cycle and hours of operation. Other fibers lasers are typically 25 - 35% energy efficient.



+1 (508) 373-1100;
[IPGPhotonics.com/contact](https://www.ipgphotonics.com/contact)
www.ipgphotonics.com



Legal notices: All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind IPG only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with use of a product or its application. IPG, IPG Photonics, The Power to Transform and IPG Photonics' logo are trademarks of IPG Photonics Corporation. © 2023 IPG Photonics Corporation. All rights reserved.