

YLS-CUT & U SERIES POWER SUPPLY

For fiber laser cutting
4000-20,000 kW

PRODUCT



IPG Photonic's high power CW YTTERBIUM FIBER LASER YLS -CUT & U SERIES are compact, rugged, and efficient power supply systems for industrial applications.

FEATURES AND BENEFITS:

- + Plug and play design.
- + Excellent cutting and marking quality.
- + Different models available from 4000-20,000 watt systems.
- + 20 meter (65.6') fiber cable included providing for an extremely large cutting area and flexibility in the placement of the unit.
- + Three times more efficient than CO₂ lasers.
- + Does not require laser gas, making for cost saving operation.
- + Produces virtually dross-free cuts.
- + Includes N₂ gas option for stainless steel and aluminum.

SYSTEM DESCRIPTION

IPG Photonic's high power CW Ytterbium Fiber Laser YLS-Cut & U Series systems are created from active optical fibers and semiconductor diodes; merging two of the most innovative and advanced laser technologies. Fiber lasers use single emitter semiconductor diodes as the light source to pump the active fibers. The laser beam emitted is contained within optical fibers and delivered through an armored flexible cable. Active fibers, special optical fibers doped with rare earth ions, allow for an extremely bright light from a very small core, thus making possible the production of kilowatt class output with excellent beam quality.

APPLICATION

Available on the MetalMaster Xcel, Element U & FiberBlade models.

Cut Plate Measurements

kW Series	Mild Steel	Stainless Steel	Aluminum
4000, 5000, 6000, 8000, 10,000, 12,000, 15,000, 20,000	up to 1.5"	up to 1"	up to 1"

Actual results may vary based on gas purity, material quality or other conditions on site. Capacity determined by select wattage.