L1-RUC-Y1070 series

State-of-the-art generation of medium-power industrial lasers

New! Up to 6 kW!

Designed to work with all types of metals, including copper, brass, etc.

Russian manufacturing and tech supp[redacted]

Operation at maximum power 24/7 wi[redacted] no impact on source lifetime

36-month warranty



Applications

- 2D/3D metal cutting
- Spot and butt welding
- Cladding and SLM printing
- Precision processing
- Heat hardening
- Drilling through and blind holes
- Processing of aluminium, copper and other highly reflective materials

Distinctive features

- Output power up to 6 kW
- Built-in dryer for operation in high humidity
- Back-reflection protection system
- Continuous self-diagnostics system
- The most compact and lightweight housing available
- Wall-plug efficiency over 40%

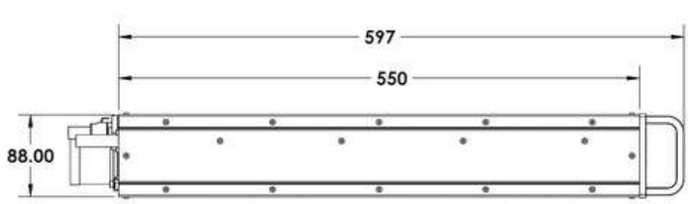
The L1-RUC-Y1070 series comprises the industry's most compact continuous-wave ytterbium fiber lasers of the kilowatt range, combining the latest advances and thirty years of experience of VPG LaserONE in laser technology. A wide operating temperature range and a built-in dryer allow the source to be used in the harshest production environments. Internal self-diagnostics, the highest component reliability and a long warranty period ensure maximum confidence and control over production.

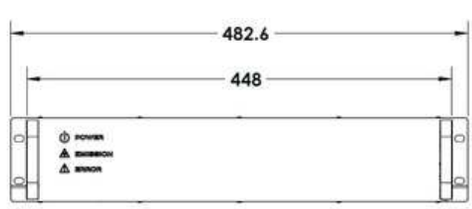
L1-RUC-Y1070 series

State-of-the-artgenerationof medium-power industrial lasers

Optical specifications	1000	1500	2000
Central wavelength, nm	1070 ± 10		
Operating mode	Continuous (CW) / modulated		
Modulation frequency, kHz			Up to 50
Maximum average power (CW), W	1000	1500	2000
Power tuning range, %	10—100		
Radiation power stability, % ± 0.5	± 0,5		
Output fiber core diameter, μm	50 (optionally 100, 200, 400, 600)		
BPP parameter, mm × mrad	2 (optionally 5, 10, 14, 22)		

Technical specifications	
Overall dimensions (W × D × H), mm	448 (482,6) × 550 (597) × 88
Weight, kg	30—80
Cooling	Water
Supply voltage, V (AC)	1-phase, 50/60 kHz, 200—240 V
Power consumption, W	2500—5000
Permissible ambient humidity range, %	10—90
Operating temperature range, °C	10—50





The YLR-(U)-R lasers are certified to the EAC standard. VPG LaserONE produces a full range of optical components, including fiber-optic cables and optical elements, collimators, beam combiners and switches, as well as solutions for controlling technological processes and tooling. The laser is fully compatible with interchangeable collimators and process heads from VPG LaserONE thanks to the standard QBH HLC-8 connector.

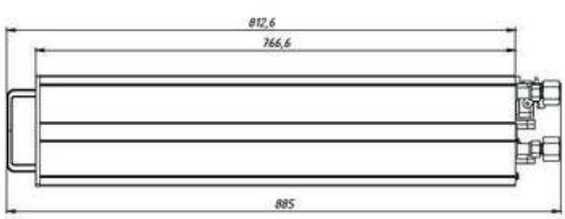
Learn more and choose the best — contact us in any way convenient for you!

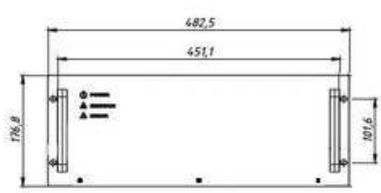
Optical specifications

	3000	4000	6000
Central wavelength, nm	1070 ± 10		
Operating mode	Непрерывный (CW) / модулированный		
Modulation frequency, kHz	До 50		
Maximum average power (CW), W	3000	4000	6000
Power tuning range, %	10—100		
Radiation power stability, % ± 0.5	± 0,5		
Output fiber core diameter, μm	50 (опционально 100, 200, 400, 600)		
BPP parameter, mm × mrad	2 (опционально 5, 10, 14, 22)		

Technical specifications

Overall dimensions (W × D × H), mm	448 × 801 × 177	448 x 767 x 177
Weight, kg	30-80	
Cooling	Water	
Supply voltage, V (AC)	3-phase, 50/60 kHz, 400—480 V	
Power consumption, W	7400—11500	18000
Permissible ambient humidity range, %	10—90	
Operating temperature range, °C	10—50	





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Some product items may be unavailable. The user assumes all risks and full responsibility related to the use of the product.
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Quality Innovation Future

GLOBAL LEADER IN THE LASER INDUSTRY

VPG LaserONE is a Russian company founded by the outstanding Soviet scientist Valentin Pavlovich Gapontsev, founder of the international science and technology corporation.
VPG LaserONE develops and serially produces high-efficiency fiber lasers and amplifiers, optical components, assemblies, modules, instruments, subsystems and systems for:

- Industrial laser cutting, welding, cladding, alloying, heat treatment, marking and cleaning systems.
- Scientific research.
- Fibre-optic, atmospheric and satellite optical communications, cable television.
- Surgery and biomedicine.
- Optical ranging and remote monitoring of industrial facilities and the atmosphere.
- Measurement and control systems, sensors.

In order to introduce innovative laser technologies into production, VPG LaserONE has for many years worked closely with leading domestic machine-building, metallurgical, railway and motor transport enterprises and supplies its customers with more than 600 types of ultra-high-technology laser equipment. Many devices and systems have no equivalents on the world high-tech market. All key components of fiber laser technology are manufactured in-house, which delivers:

- Fast product development.
- Efficient production methods.
- The industry's best product delivery times.
- More advanced and higher-quality solutions.
- The highest wall-plug efficiency, which reduces overall energy consumption and costs.



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1992
Foundation date

1,500+
employees

500+
R&D specialists

>60 000 m²
facilities

100+
patents

90%
component localization