



L1-RC-V355-3-SM

Continuous Wave UV Lasers



Applications

- ▶ Microelectronics
- ▶ Scientific research
- ▶ Lithography
- ▶ Additive technologies: 3D printing of ceramics and photopolymers

New!



The L1-RC-V355-3-SM series devices are a specially designed line of continuous-wave high-power UV single-mode lasers based on ytterbium fiber lasers in an industrial RACK 19" enclosure with water cooling and frequency conversion for microelectronics tasks.

The sources generate powerful >3 W single-mode continuous-wave linearly polarized radiation at wavelengths of 355, 311, and 266 nm.

Possible control interfaces: Ethernet, RS-232.

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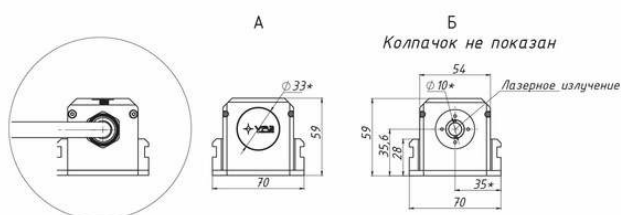
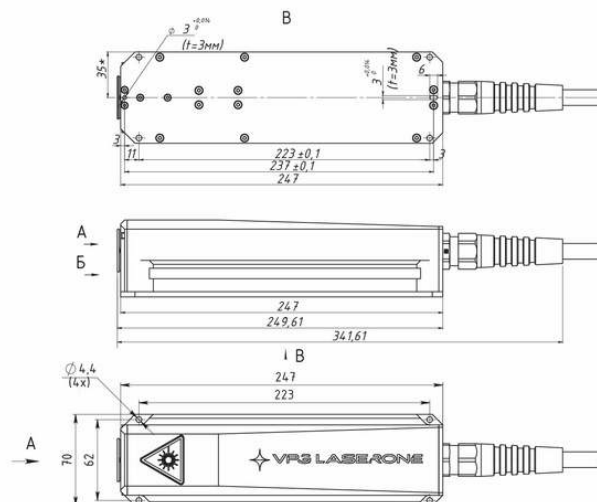
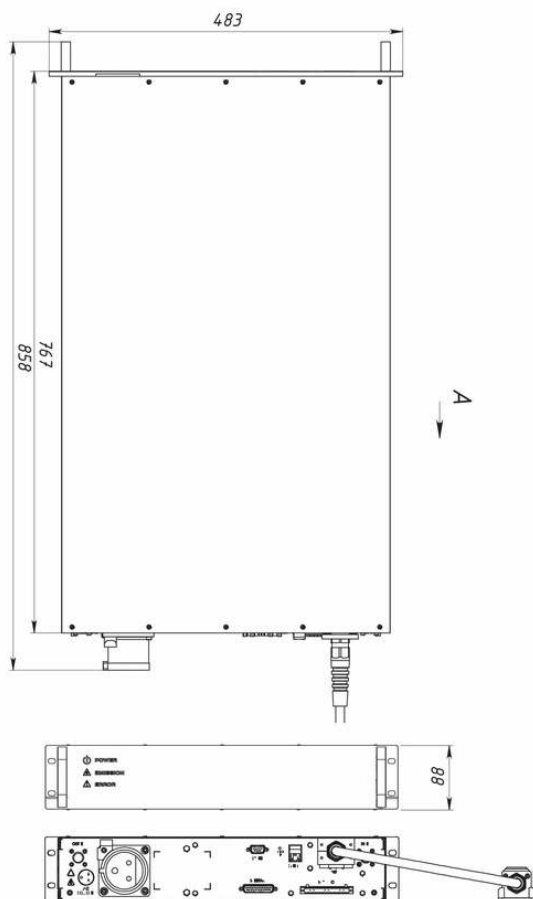
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Quality Innovation Future

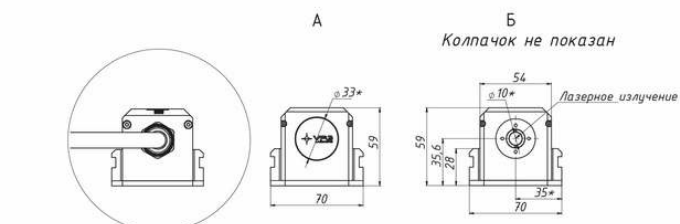
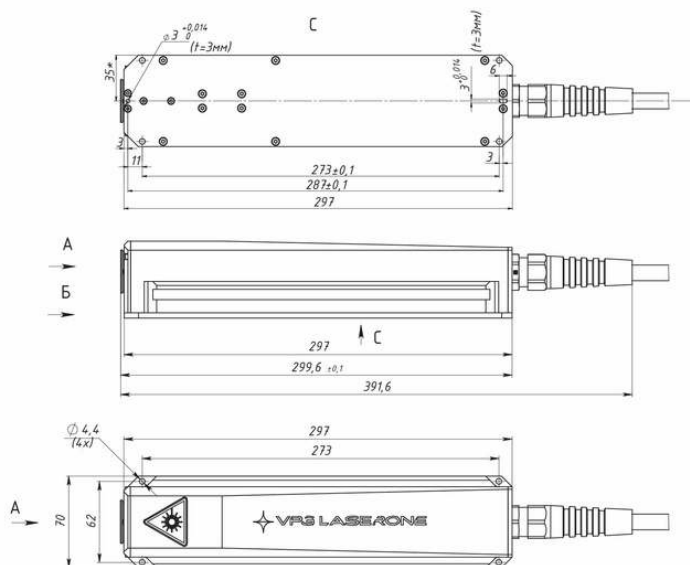
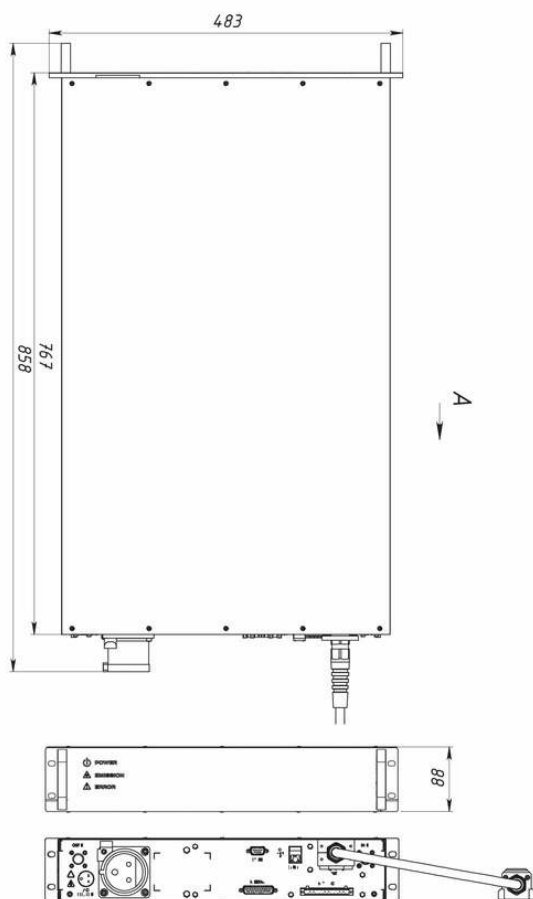
L1-RC-V355-3-SM Series

Optical Characteristics	266	311	355
Operation mode	Continuous Wave (CW)		
Maximum output power, W	1	1	3
Wavelength, nm	266	311	355
Beam quality, M ²	< 1,2		
Polarization	Linear (1:100), horizontal		
Output power stability, %	< ± 1		
Spectral line width, nm	< 0,2		
Beam diameter, mm	1; 2		
General Characteristics			
Module dimensions (H × W × D), mm	88 × 448 × 760		
Optical head dimensions (H × W × D), mm	59 × 70 × 300	59 × 70 × 250	59 × 70 × 250
Module weight, kg	36		
Optical head weight, kg	2,2	2	2
Operating temperature range, °C	+10...+40		
Cooling	Water-cooled		
AC supply voltage, V	220 B (50/60 kHz)		
Power Consumption, W	0,5 ; 1	0,5 ; 1	0,5 ; 1

L1-RC-V355-3-SM(-0.5, -1)



L1-RC-V355-3-SM(-0.5)





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