



# L1-RC-V536-200-SM

## Continuous wave Green Laser

New!



### Applications

- For selective laser melting and welding processes of copper and copper alloys



### Key Advantages

- High absorption coefficient by copper alloys (up to 40%) and high beam quality ( $M^2 < 1.5$ )

The L1-RC-V536-200-SM laser source generates high power continuous radiation in the green spectrum at a wavelength of 536 nm. It is absorbed up to 10 times more actively by metals such as copper and gold and can be used for their precise and energy-efficient processing.

The production of cooling system parts, antennas, and electrically conductive components will become faster and more stable with the L1-RC-V536-200-SM.



Learn more and choose the best option by contacting us in a convenient way!

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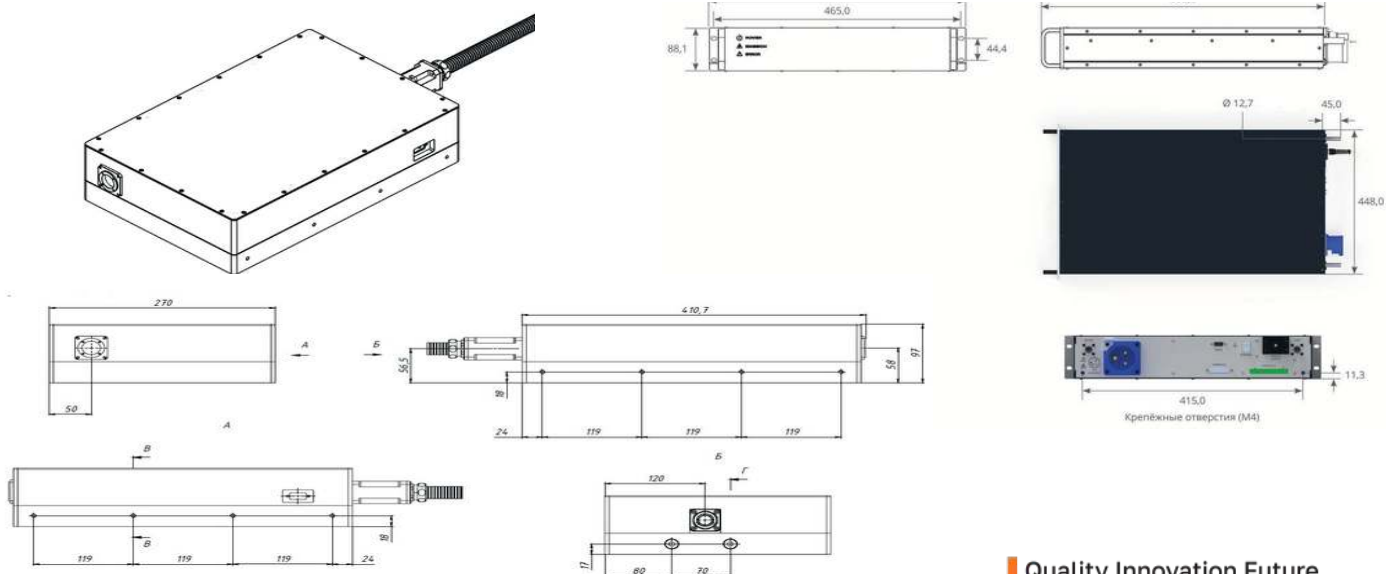


# L1-RC-V536-200-SM

## Continuous wave Green Laser

| Optical Characteristics             | L1-RC-V536-200-SM                               | L1-RC-V536-300-SM |
|-------------------------------------|-------------------------------------------------|-------------------|
| Central wavelength, nm              | 536                                             |                   |
| Operation mode                      | Continuous Wave (CW) with modulation capability |                   |
| Polarization                        | Random Linear (1:100), horizontal               |                   |
| Maximum average power (CW), W       | 200                                             | 300               |
| Power Tunability, %                 | 10-100                                          |                   |
| Power Stability, %                  | ± 3                                             |                   |
| Beam ellipticity, %                 | < 5%                                            |                   |
| Beam Quality, M²                    | < 1,5                                           |                   |
|                                     |                                                 |                   |
| General Characteristics             |                                                 |                   |
| Dimensions (D × W × H), mm          | 760 × 448 × 88                                  |                   |
| Module weight, kg                   | 36                                              |                   |
| Optical head weight, kg             | < 15                                            |                   |
| Cooling                             | Water-cooled                                    |                   |
| Supply Voltage, VAC                 | 200-240                                         |                   |
| Power consumption, W                | 3000                                            |                   |
| Allowable ambient humidity range, % | 10 to 80                                        |                   |
| Storage temperature, °C             | -20 to +60                                      |                   |

VPG LaserONE produces a full line of optical components, including fiber optic cables and optical elements, collimators, combiners and beam switches, as well as solutions for process and tooling control.





# 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 fibre 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 fibre 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 m<sup>2</sup>

facilities



## 100+

patents



## 90%

component  
localization