L1-RC-V5xx-SM (Green Laser)
Continuous wave Green Lasers

New!

Applications

- Pumping of Ti:Sapphire and other lasers
- Security systems
- Scientific research
- Microelectronics

The L1-RC-V5xx-SM series devices are a specially designed line of continuous wave high power green single mode lasers based on ytterbium fiber lasers with frequency doubling, housed in an industrial RACK19" enclosure with water cooling, intended for microelectronics tasks and pumping DYE, Ti:Sapphire, and other types of lasers.

The sources generate powerful single-mode continuous-wave linearly polarized radiation with power up to 50 W at wavelengths of 532 and 536 nm, surpassing market analogues in stability, power, and beam quality.

Possible control interfaces: Ethernet, RS-232.

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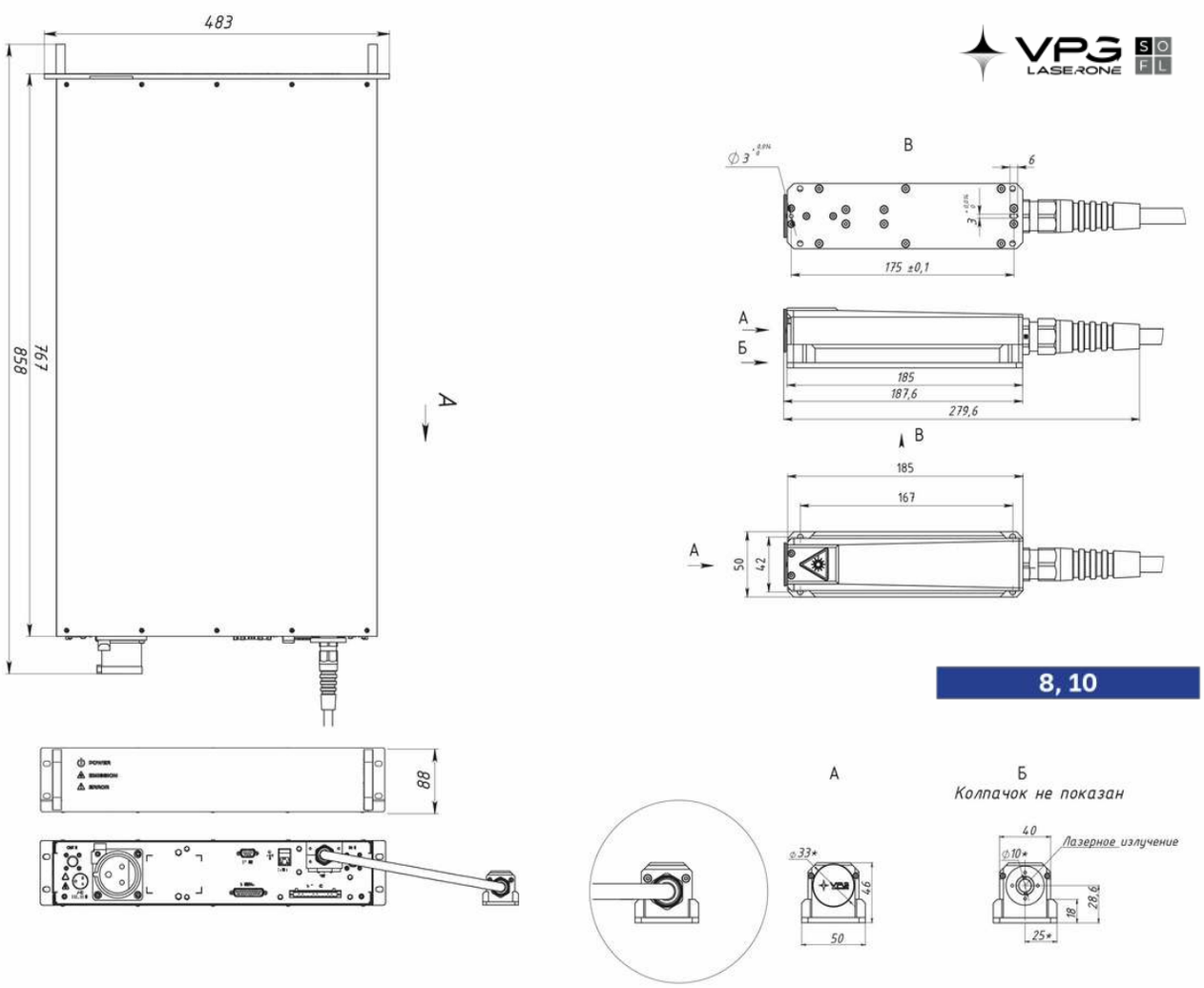
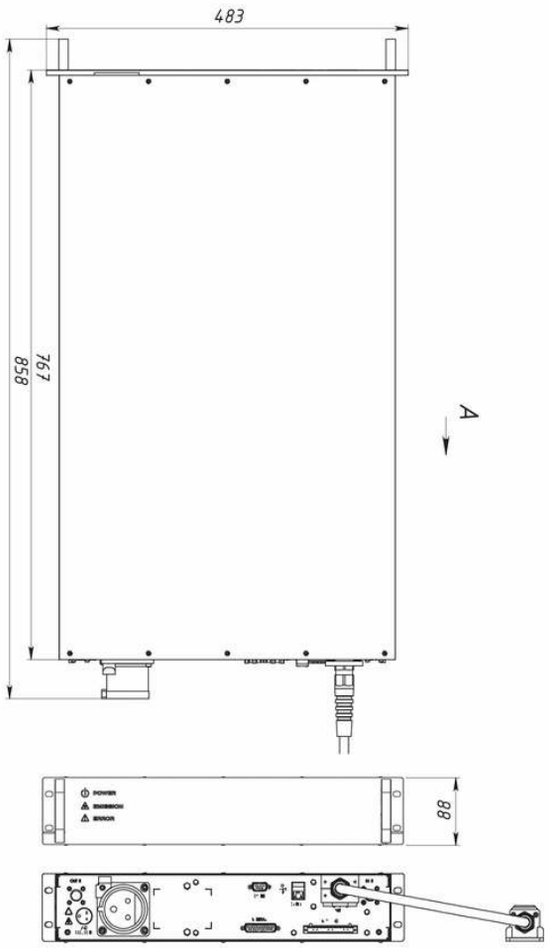
Quality Innovation Future

L1-RC-V5xx-SM series

Optical Characteristics	8	10	20	25	30	50
Operation mode	Continuous Wave (CW)					
Maximum output power, W	8	10	20	25	30	50
Wavelength, nm	532, 536					
Beam quality, M^2	< 1,2		< 1,3			< 1,5
Polarization	Linear (1:100), horizontal					
Output power stability, %	< ± 1		< ± 2			< ± 2
Spectral line width, nm	< 0,5		< 0,7			< 1,2
Beam diameter, mm	1; 2					

General Characteristics						
Module dimensions (W × D × H), mm	88 × 448 × 760					
Optical head dimensions (W × D × H), mm	46 × 50 × 187		59 × 70 × 250			59 × 70 × 300
Module weight, kg	36					
Optical head weight, kg	1,6		2			2,2
Operating temperature range, C⁰	+10...+40					
Cooling	Water-cooled					
AC supply voltage, V	220 В (50/60 kHz)					
Power Consumption, W	1000					

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767
858
88
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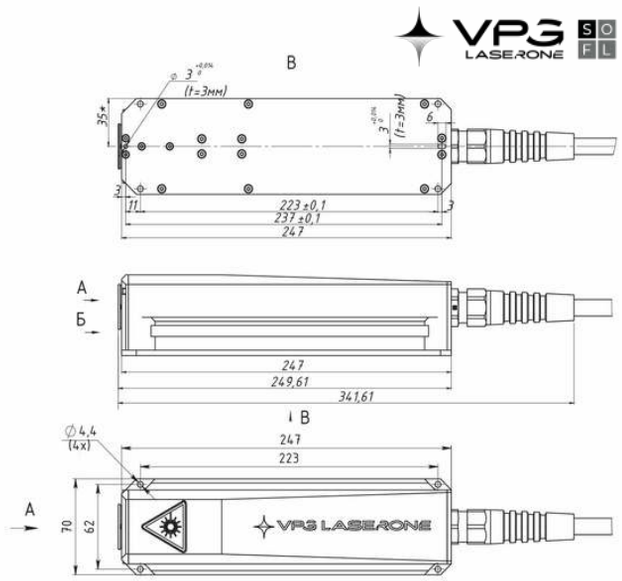
B
(t=3мм)
35*
6
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11
223 ±0,1
237 ±0,1
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Б
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249,61
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(4x)
223
70
62
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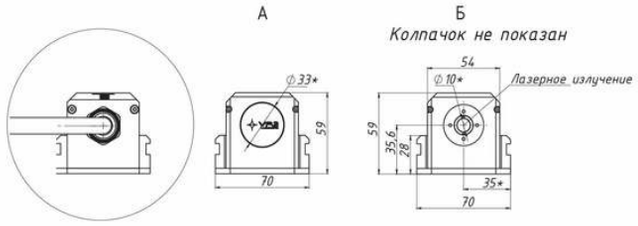
20, 25, 30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Ø 33*
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Ø 10*
Лазерное излучение
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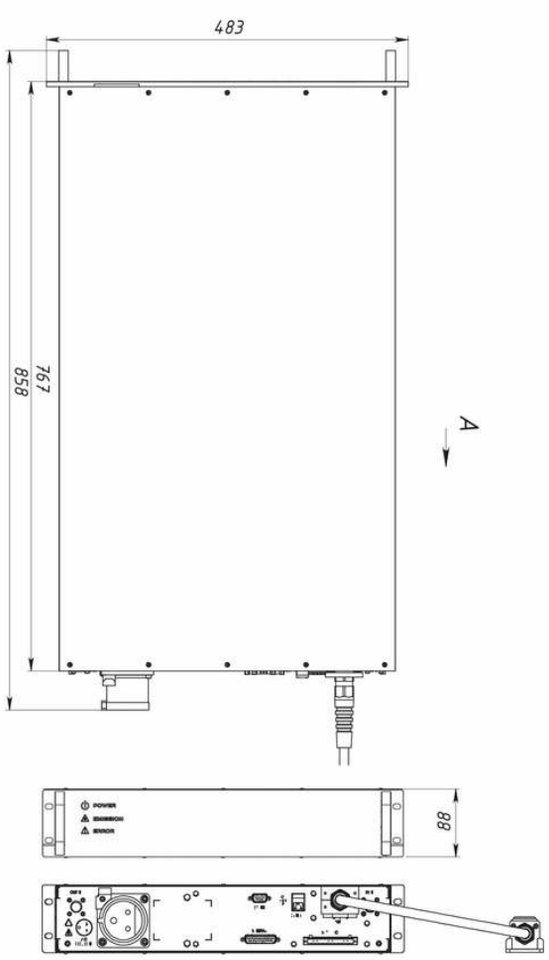
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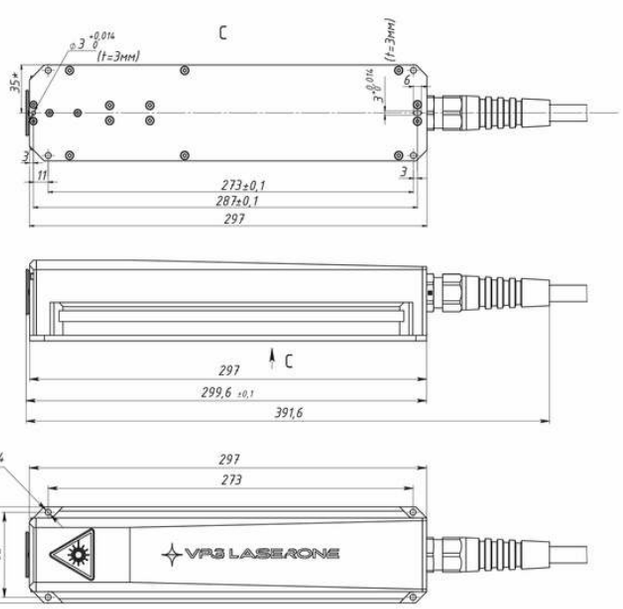
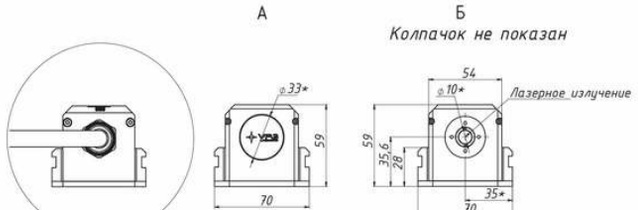

C
(t=3мм)
35*
6
3
11
273±0,1
287±0,1
297
A
Б
C
297
299,6 ±0,1
391,6
Ø 4,4
(4x)
297
273
70
62
VPG LASERONE

50


А
Б
Колпачок не показан
Ø 33*
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Ø 10*
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28
35*

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 IPG Photonics 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 Laseruan 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