L1-MC-V5xx-SM (Green Laser Module)
Continuous Wave Green Lasers

New! 510-540 nm

Applications

- Ti:Sapphire and other laser pumping
- Laser shows and outdoor advertising
- Laser illumination of objects
- Security systems
- Scientific research
- Medical and cosmetic equipment

The L1-MC-V5xx-SM series devices are a specially designed line of continuous-wave green single-mode lasers in a compact OEM module that does not require water cooling, based on ytterbium fiber lasers with frequency doubling.

Laser sources generate powerful single-mode continuous-wave linearly polarized radiation in the visible green spectral range of 510-540 nm with low optical noise.

They are ideally suited as optical pumps for DYE, Ti:Sapphire, and other types of lasers. The optical design of the device allows manufacturing a source at any wavelength within the 510-540 nm range upon request. Several standard wavelengths are available in the product line.

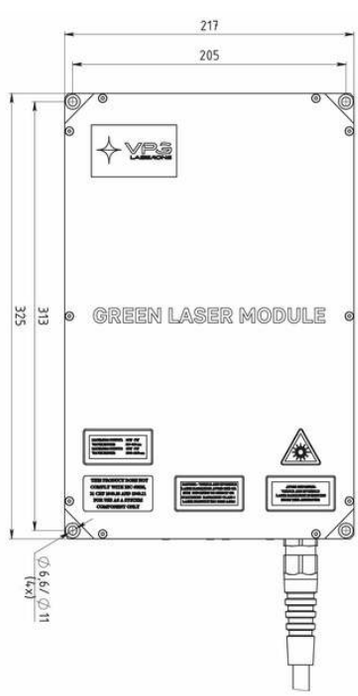
Possible control interfaces: Ethernet, RS-232.

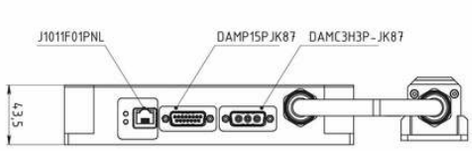
L1-MC-V5xx-SM Series

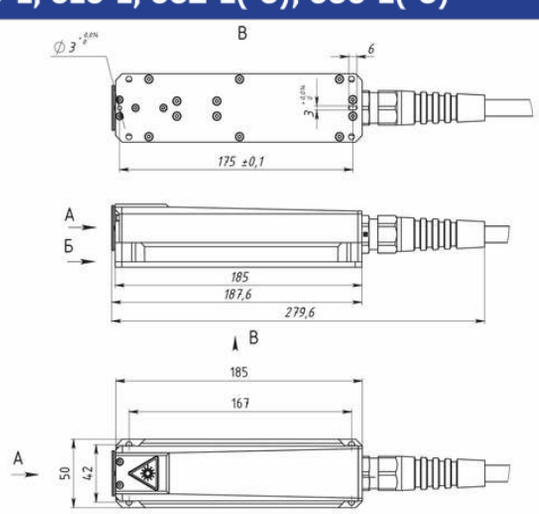
Optical Characteristics	510	515	532	535
Operation mode	Continuous Wave (CW)			
Maximum output power, W	1	1	1; 3	1; 3
	3	3	5	5
	-	-	8; 10	8; 10
Wavelength, nm	510	515	532	535
Beam quality, M^2	≤ 1,3			
Polarization	Linear (1:100), horizontal			
Power stability, %	≤ ± 1%			
Spectral line width, nm	~ 1			
Beam diameter, mm	1 ; 2			
Optical noise (up to 20 MHz), % rms	< 0,3			

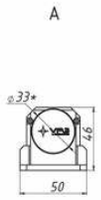
General Characteristics				
Module dimensions (H × W × D), mm	43,5 × 217 × 325			
Optical head dimensions (H × W × D), mm	46 × 50 × 187	46 × 50 × 187	46 × 50 × 187	46 × 50 × 187
	59 × 70 × 250	59 × 70 × 250	59 × 70 × 250	59 × 70 × 250
	-	-	59 × 70 × 300	59 × 70 × 300
Weight, kg	5	5	5	5
	5,5	5,5	5,5	5,5
	-	-	6	6
Operating temperature range, °C	+15..+35			
DC supply Voltage, V	24			
Power Consumption, W	250	250	250	250
	450	450	400	400
	-	-	450, 500	450, 500

510-1, 515-1, 532-1(-3), 535-1(-3)

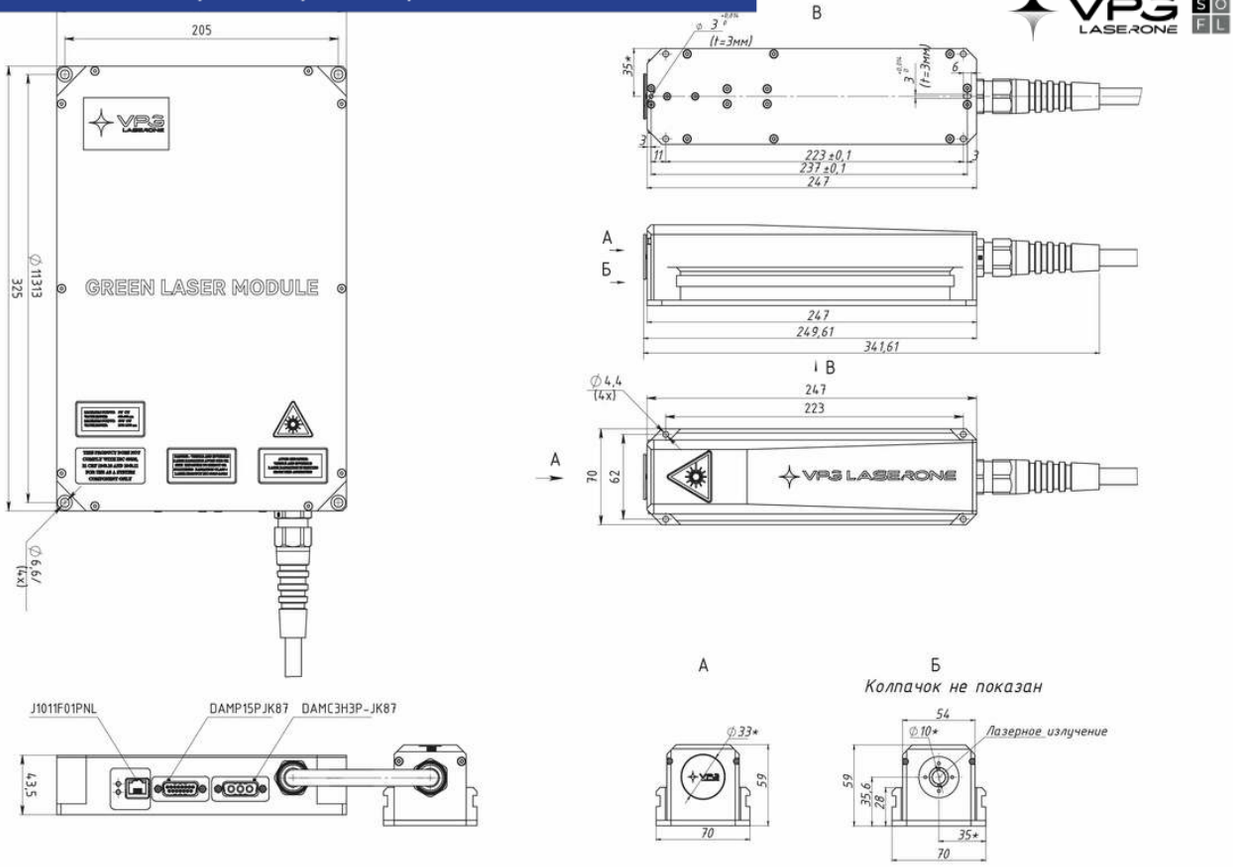




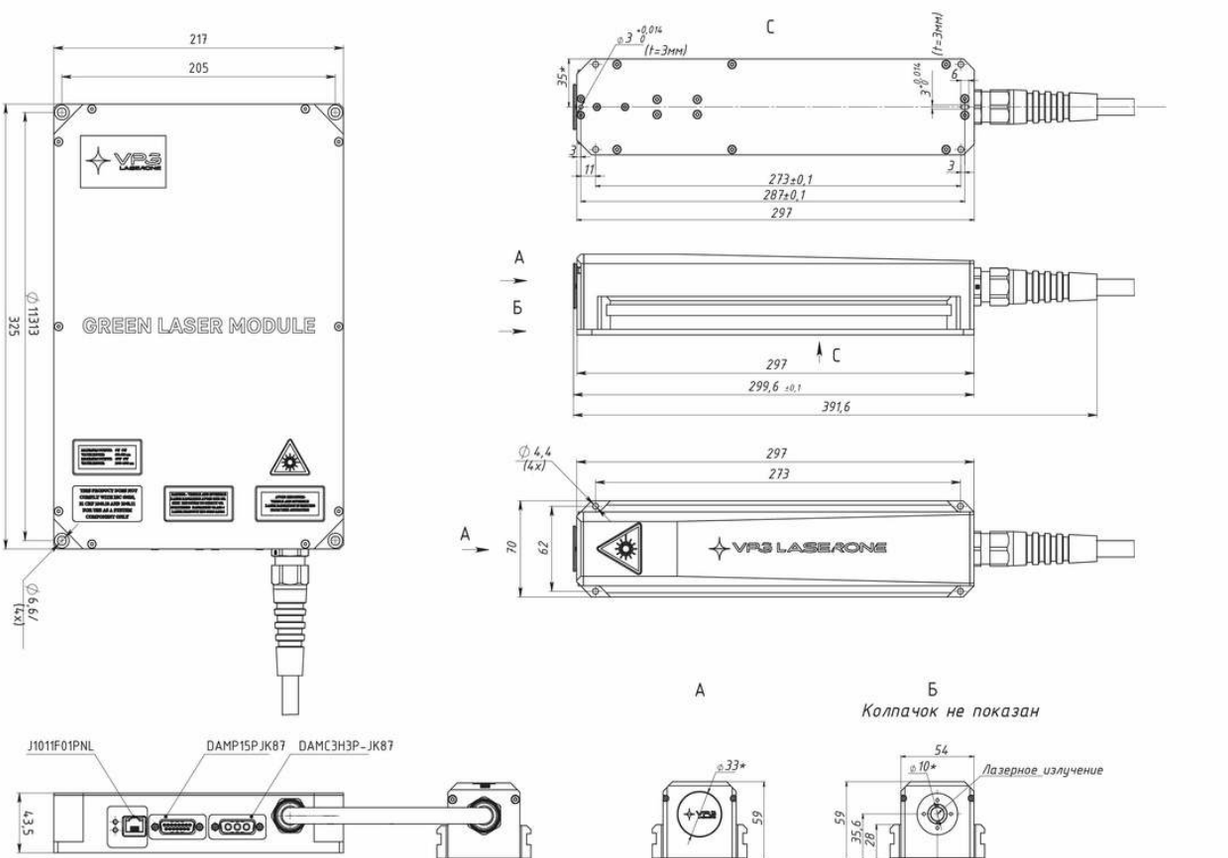




510-3, 515-3, 532-5, 535-5



532-8(-10), 535-8(-10)



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.

1992
Foundation date

1,500+
employees

500+
R&D specialists

>60 000 m²
facilities

100+
patents

90%
component localization

LASERNEXT
+91 8939521000
WWW.LASERNEXT.IN
SATISH.A@LASERNEXT.IN
KAPITALEASE SOLUTIONS, NEXUS 3.0
SITE 31/26, BOMMASANDRA INDUSTRIAL AREA,
4TH PHASE, JIGANI, BENGALURU, KA 560105, INDIA