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DPSSL-XP series

Compact diode-pumped solid-state lasers with integrated controller electronics - up to 500 mW output power



LASOS

For worldwide photonics

LASOS Lasertechnik GmbH
Franz-Loewen-Str. 2
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lasos.com

- Large variety of wavelengths 473 nm to 640 nm
- Reliable and robust
- Maintenance free and compact design
- Control software and commandset
- Customization on request



lasos.com

Compact diode-pumped solid-state lasers with integrated controller electronics

LASOS® DPSSL-XP series

The LASOS DPSSL-XP is our latest release of compact diode-pumped solid-state lasers. It combines the eXperience of more than 20 years solid state laser development and manufacturing.

DPSSL-XP lasers offer excellent beam quality in a variety of wavelengths based on the latest progress in solid state laser technology. The new laser series makes OEM integration even simpler and is also ideally suited for flexible laboratory operation. All necessary control electronics are now fully integrated.



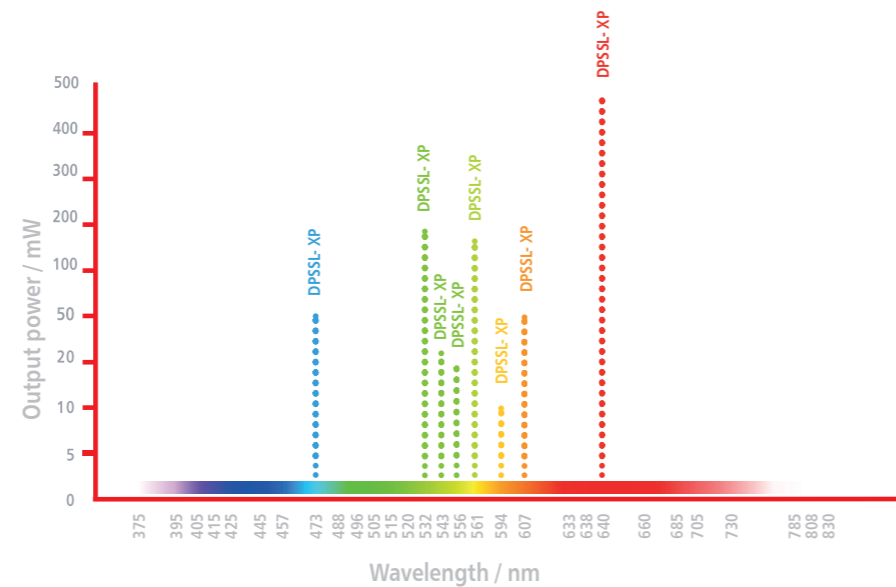
Specifications

Wavelengths (nm)	Standard: 473, 532, 543, 556, 561, 594, 640 On request: 552, 607
Wavelength stability (8 h)	±2 pm
Spectral linewidth ¹	< 1 MHz
Output power	up to 500 mW depending on wavelength
Output power stability within 8 h	±2.0 %
Noise 30 Hz-10 MHz (%)	< 0.5 rms ²
Warm up period	< 10 min
Beam Quality M ² (TEM00)	< 1.2
Beam waist diameter (1/e ²)	0.7 mm
Beam ellipticity	0.85 -1.15
Pointing stability	< 6 μrad K ⁻¹
Polarization ratio	≥ 200:1
Operating voltage	12 V

¹ Except 594 nm and 640 nm >200 mW
² 594, 607, 640 nm <2 %

Wavelengths

LASOS DPSSL-XP series

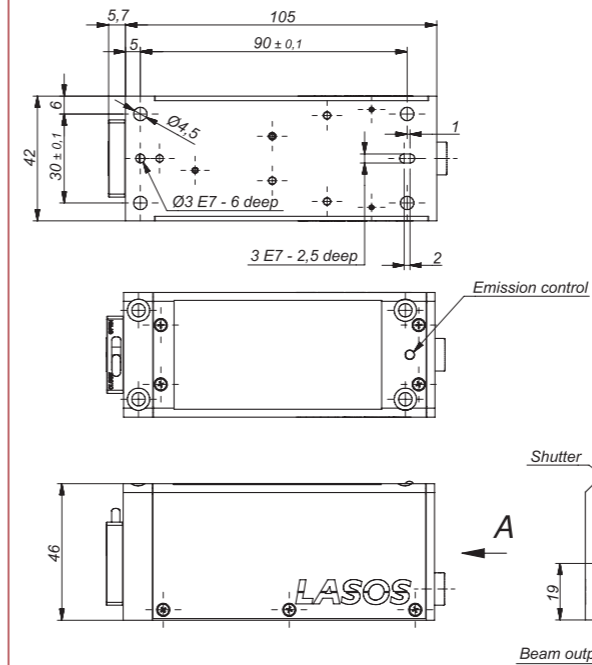


Areas of application:

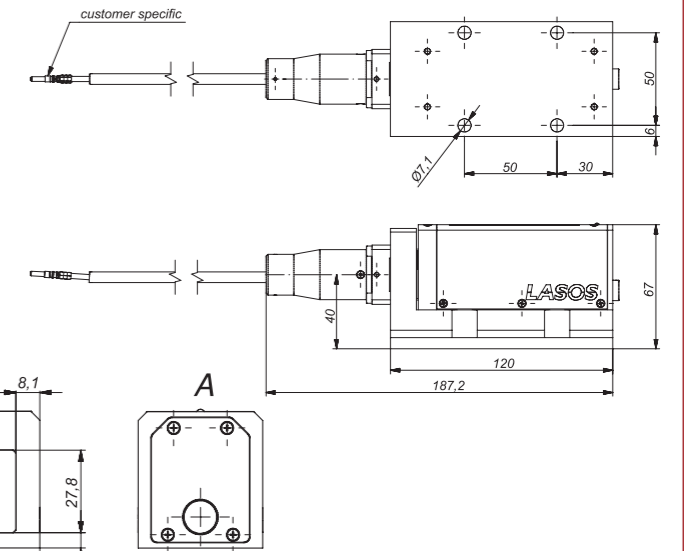
- ⊙ Spectroscopy
- ⊙ Interferometry
- ⊙ Confocal and fluorescence microscopy
- ⊙ Bioanalytical research
- ⊙ Particle measurements
- ⊙ Metrology
- ⊙ Holography
- ⊙ Quantum-imaging
- ⊙ Industrial measurements
- ⊙ Science and education

Drawings

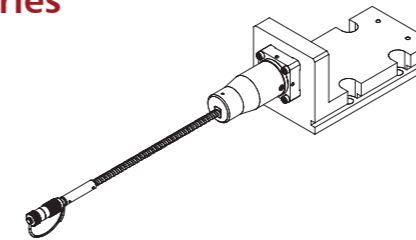
LASOS DPSSL-XP series free beam



LASOS DPSSL-XP series fiber coupled

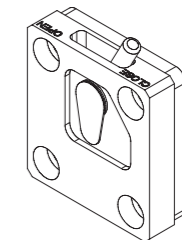


Accessories



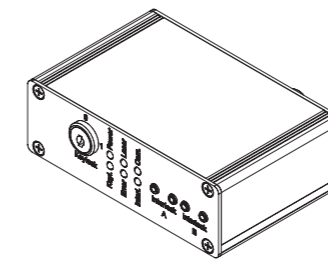
Fiber coupling

- ⊙ Fiber coupling: single-mode, polarization maintaining
- ⊙ Coupling efficiency up to 80%



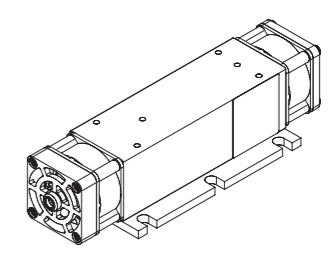
Shutter

- ⊙ For stand alone lasers
- ⊙ For free beam lasers safety



Switch Box XP

- ⊙ Interface: USB 2.0 and RS232
- ⊙ Operating voltage: 12 VDC
- ⊙ Power consumption: 42 W



Heat sink LHA 1202

- ⊙ Operating voltage: 12 VDC
- ⊙ Operating current: 200 mA
- ⊙ Recommended for all lasers