

DPSSL-XP series

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



- Large variety of wavelengths from 473 nm to 640 nm
- Stand-alone and OEM design available
- Outstanding long term stability
- Excellent beam quality
- Reliable and robust
- Maintenance free and compact design
- Optional fiber coupling
- Control software and commandset
- Firmware integration possible
- Customization on request



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

LASOS® DPSSL-XP series

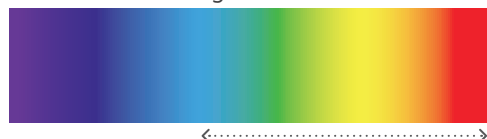
The LASOS DPSSL-XP is our latest release of compact diode-pumped solid-state lasers. It combines the eXperience of more than 20 years solid state laser development and manufacturing.

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.

The LASOS® DPSSL-XP series provides the ideal products for applications in:

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

Available wavelengths:



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General Specifications

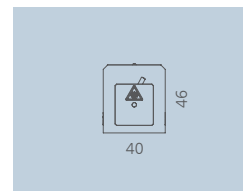
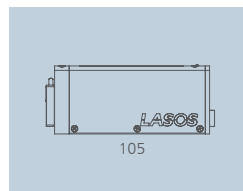
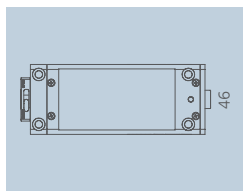
Wavelengths

Standard: 473, 532, 543, 556 nm
561, 594 and 640 nm
On request: 552 and 607 nm

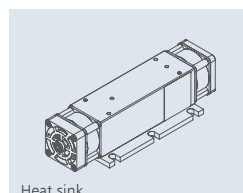
Wavelength stability (8 h)	±2 pm
Spectral linewidth ¹	< 1 MHz
Output power	up to 500 mW depending on wavelength
Output power stability within 8 h	±2.0 %
Noise 30 Hz-10 MHz (%)	< 0.3 rms ²
Warm up period	< 10 min
Beam Quality M ² (TEM00)	< 1.2
Beam waist diameter (1/e ²)	0.7 mm
Beam ellipticity	0.85 -1.15
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 %

Dimensions



Accessory



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