

LASOS

For worldwide photonics

DPSSL-XP series

Compact diode-pumped solid-state laser 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

www.lasos.com

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

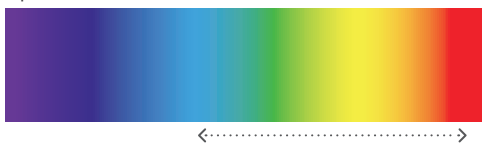
LASOS® DPSSL-XP series

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 laser 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

Spectrum



General Specifications

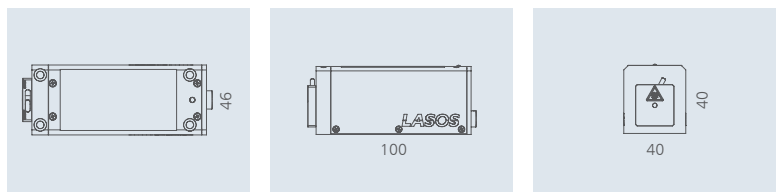
Wavelengths (nm)

Standard wavelengths: 473, 532, 543, 556 nm 561, 594 and 640 nm
Additional wavelengths available on request: 552 and 607 nm

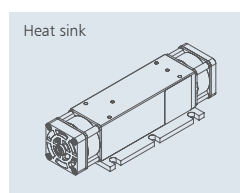
Wavelength stability (8 h)	±2 pm
Spectral Linewidth ¹	< 1 MHz
Output power	up to 500 mW depending on wavelength
Output power stability within 8 h	±2.0 %
RMS Noise 30 Hz-10 MHz (%)	< 0.3 % rms ²
Warm up period	< 10 min
Beam Quality M ² (TEM ₀₀)	< 1.2
Beam waist diameter (1/e ²)	0.7 mm
Beam ellipticity	0,85 -1,15
Pointing stability	< 6 μrad K ⁻¹
Polarization ratio	≥ 200:1
Operating voltage	12 V

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

Dimensions



Accessory



LASOS Lasertechnik GmbH
Franz-Loewen-Str. 2
07745 Jena / Germany
Phone +49 (0) 3641 2944 – 0
Fax +49 (0) 3641 2944 – 300
Mail sales@lasos.com

www.lasos.com