

# LPX-640L

**DPSS**

## Optical characteristics \*

Emission wavelength	639.7 nm	
Wavelength range	±1 nm	
Linewidth	≤1.2 nm	
Output power	<b>Free space</b>	<b>Fiber coupling</b>
	300 mW	210 mW
	500 mW	350 mW
Control mode(s)	Automatic Power Control (APC)	
Power stability <small>over 8 hours and within ±3k</small>	±1%	
Power adjustment range <small>optional</small>	Opt : 30 - 100% 0 - 100% with L1C-MPA	
Optical noise <small>%RMS, 10Hz - 2 MHz bandwidth</small>	≤0.2%	

## — Transverse singlemode free-space beam

Beam waist diameter (typ) <small>at 1/e<sup>2</sup>, 50mm from output aperture</small>	0.7 mm (±0.1 mm)
Beam divergence <small>at 1/e<sup>2</sup>, full angle, in far field</small>	1.0 to 0.2 mrad
Beam quality factor (M <sup>2</sup> )	≤ 1.1
Beam circularity, <small>in far field</small>	≥ 90%
Beam pointing stability	≤ 5 μrad/K
Polarization extinction ratio (typ)	100:1
Polarization state	linear, vertical at +/-5°

## — Modulation functions

### Optional

L1C-AOM

DC - 3 Mhz

## — Plug and Play version provided with :

- Electro-mechanical shutter
- ControlBoxx
- Power supply

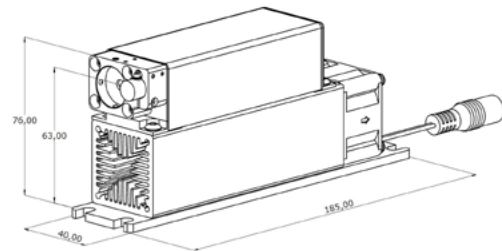
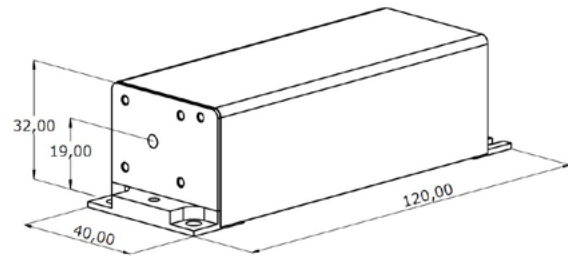
## Other options

- Heat sink
- Clean-up filter

\*specification at nominal power



## System specifications



## Fiber coupling option

Specifications	SM and PM Fiber	MM Fiber (50 μm, 0.22 NA)
Coupling Efficiency	≥ 70%	≥ 80%
Polarization Ratio (PMF only)	100 : 1	n/a
Fiber Output Connector	FC-APC FC/PC, FCP8 on demand	FC-APC
Power stability <small>over 8 hours and within ±3k</small>	±2%	±2%
Fiber length	2.0 m	2.0 m

	CDRH compliant	OEM version
Compliance	FDA 21 CFR 1040.10 / 1040.11	
Operating temperature	10 - 38°C ambient air	10 - 50°C baseplate
Power consumption	≥ 25 W	≥ 20 W
Storage temperature	0 to 60°C	
Supply voltage	100 to 240 VAC external power supply	5 to 12 VDC
Warm-up time	≤ 10 minutes	
Communication	USB, RS-232, dedicated electronic interface	

Warranty : 18 months from shipment date

## CONTACT US

Oxxius S.A  
4 rue Louis de Broglie  
F-22300 Lannion, France

Phone : +33 296 48 70 28  
sales@oxxius.com F-22300  
www.oxxius.com

