

# LPX-640L

**DPSS**

## Optical characteristics \*

Emission wavelength	639.7 nm ( $\pm 0.5$ nm)	
Linewidth	$\leq 0.5$ nm	
Output power	<b>Free space</b>	<b>Fiber coupled</b>
	300 mW	210 mW
	500 mW	350 mW
Control mode(s)	Automatic Power Control (APC)	
Power stability <small>over 8 hours and within <math>\pm 3k</math></small>	$\pm 1\%$	
Power adjustment range	0 - 100%	
Optical noise <small>%RMS, 10Hz - 2 MHz bandwidth</small>	$\leq 2\%$	

## — Transverse singlemode free-space beam

Beam waist diameter (typ) <small>at <math>1/e^2</math>, 50mm from output aperture</small>	0.7 mm ( $\pm 0.1$ mm)
Beam divergence <small>at <math>1/e^2</math>, full angle, in far field</small>	1.3 mrad
Beam quality factor ( $M^2$ )	$\leq 1.1$
Beam circularity, <small>in far field</small>	$\geq 90\%$
Polarization extinction ratio (typ)	$> 1000:1$
Polarization state	linear, vertical at $\pm 5^\circ$

## — Modulation functions

### Analog modulation

Bandwidth at -3dB : 1,5 kHz

Rise/Fall time : 20  $\mu$ s

### Optional : Fast modulation with L1C-AOM

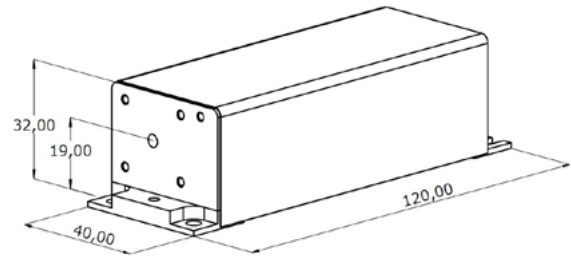
Bandwidth at -3dB : 3 MHz

## Fiber coupling option

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



## System specifications



## — Plug and Play version provided with :

- Electro-mechanical shutter
- ControlBoxx
- Power supply

## Other options

- Heat sink

## General specifications

	Plug and Play version	OEM version
Compliance	CE FDA 21 CFR 1040.10/1040.11	FDA 21 CFR 1040.10 / 1040.11
Operating temperature	10 - 38°C ambient air with optional heat sink	10 - 50°C baseplate
Power consumption	$\leq 25$ W	$\leq 20$ W
Storage temperature	0 to 60°C	
Supply voltage	100 to 240 VAC external power supply	5 to 12 VDC
Warm-up time	$\leq 5$ minutes	
Interfaces	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  
www.oxxius.com