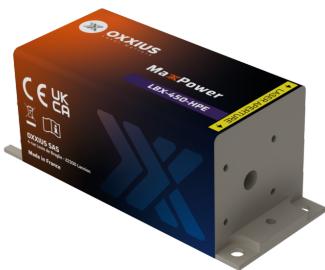


MaxxPower

By Oxxius

Gamme	High-Power Diode Modules
Title	MaxxPower 450 nm
Reference	LBX-450
Description	<p>The MaxxPower LBX-450 is a compact 450 nm laser source that exhibits the highest optical power over an industry-standard 100x40 mm footprint. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use.</p> <p>This model is a trusted solution for illumination, atom pumping or wide-field microscopy.</p> <p>Key features</p> <ul style="list-style-type: none">• $\pm 1.0\%$ long-term power stability; low optical noise• Modulation up to 1 MHz• Integrated control electronics <p>Fully compatible with Oxxius MixxWave combiners for multi-mode fiber delivery in conjunction with other laser lines.</p>



Product Variations

Part Number	Puissance
LBX-450-650-HPE-PPA	650mW
LBX-450-1200-HPE-PPA	1200mW

Optical Characteristics

Emission wavelength	450 nm
Tolerance	($\pm 5\text{nm}$ tolerance)
Control modes	Automated power control (APC), Automated current control (ACC)
Optical noise	? 0.2% rms, 10Hz-20MHz bandwidth
Spectral linewidth	? 2nm
Analog modulation function - Rise / fall time	? 200ns
Analog modulation function - Bandwidth	? 1MHz
Beam diameter, 1/e² level, 50mm from the beam aperture	2.6 x 0.7mm
Beam divergence, 1/e² level full beam, far field	0.2 x 4.0mrad

General Specifications

Supply voltage	9V to 12V
Operating temperature	10°C to 50°C
Storage temperature and humidity	0°C to 60°C
Warm up time	?2 minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	100x40x40 mm
Weight (laser head)	?330 g
Controller dimensions	106x126x56 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	4
Warranty	24 months or 10000 hours, whichever occurs first

Options

Option 1	Multimode fiber coupling
Option 2	Heat management
Option 3	Band-pass filter
Option 4	OEM version