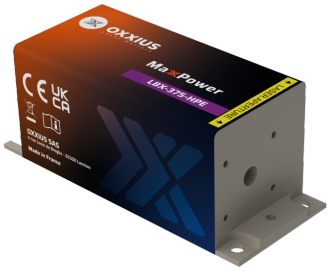
# MaxxPower

By Oxxius

| | |
|---|---|
| **Product range** | High-Power Diode Modules |
| **Product name** | MaxxPower 375 nm |
| **Reference** | LBX-375 |
| **Description**<br>  <br><br>***Caption: Lbx 375 Hpe*** | The MaxxPower LBX-375 is a compact 375 nm laser source that exhibits the highest optical power over an industry-standard 100×40 mm footprint. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use.<br>This model is a trusted solution for polymer-curing, lithography or wide-field microscopy. Key features<br>• ±1.0% long-term power stability; low optical noise<br>• Modulation up to 1 MHz<br>• Integrated control electronics Fully compatible with Oxxius MixxWave combiners for multi-mode fiber delivery in conjunction with other laser lines. |

## Product Variations

| Part Number | Power |
|---|---|
| LBX-375-200-HPE-PPA | 200mW |
| LBX-375-400-HPE-PPA | 400mW |

## Optical Characteristics

| | |
|---|---|
| **Emission wavelength** | 375 nm |
| **Tolerance** | (±5 nm tolerance) |
| **Control modes** | Automated power control (APC) |
| **Optical noise** | ≤0.2 % rms, 10Hz-20MHz bandwidth |
| **Spectral linewidth** | ≤2 nm |
| **Analog modulation function - Rise / fall time** | ≤300 ns |
| **Analog modulation function - Bandwidth** | ≥1 MHz |
| **Beam diameter, 1/e² level, 50mm from the beam aperture** | 3.0 x 1.4 mm |
| **Beam divergence, 1/e² level full beam, far field** | 1.4 x 2.2 mrad |

## General Specifications

| | |
|---|---|
| **Supply voltage** | 5 V to 12 V |
| **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 |
| **Controler dimensions** | 106x126x56 mm |
| **Compliance** | CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11 |
| **Laser class** | 3B |
| **Warranty** | 24 months or 5000 hours, whichever occurs first |

## Options

| |
|---|
| Multimode fiber coupling |
| Heat management |
| Band-pass filter |
| OEM version |

*Oxxius has a policy of continuous product improvement. Specifications may change without notice.*