The CYFA-BO series (Continuous Ytterbium-doped fiber amplifier) are designed for continuous wave operations in the 1.0 μm range. The amplifiers deliver up to 42dBm of saturated output power and are available in random or linear polarization.

Many various scientific applications can be achieved with these Ytterbium fiber amplifiers, such as material characterization, nanotechnologies, quantum optics or nonlinear optics for the visible light generation.

Several optical amplification bandwidths are available from 1029 nm to 1114 nm. The amplifier design is highly robust and is also designed to amplify narrow linewidth signals (<100kHz).

The CYFA-BO series offer a cost effective solution for input seed power above +20dBm. They also deliver high optical signal to noise ratio (OSNR) at the output. The amplifiers are available in benchtops or compact OEM modules. The benchtop platforms offer the possibility to monitor the amplifier via the front panel or remotely via serial port. Both models offer robustness and reliability.

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**Key features**

- Up to 42 dBm of saturated output power
- Polarization-maintaining (optional)
- Narrow linewidth
- Turnkey benchtop or OEM module versions available
- Low power consumption
- High reliability
- Cost effective

**What applications**

- Helium pumping
- Sensing
- Optical component testing
- Non-linear optics
- Nanotechnologies

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For ordering information and custom solutions, please contact us: websales@keopsys.com
**Optical Specifications**

<table>
<thead>
<tr>
<th>CYFA-BO</th>
<th>@ 25 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode of operation</td>
<td>CW</td>
</tr>
<tr>
<td>Wavelength range</td>
<td>1029-1035 nm (BW01), 1036-1045 nm (BW02), 1046-1059 nm (BW03), 1060-1075 nm (BW04), 1076-1090 (BW05), 1110-1114 nm (BW06), Custom (BW00)</td>
</tr>
<tr>
<td>Polarization</td>
<td>Random (SM) or linear (PM with PER&gt;17 dB)</td>
</tr>
<tr>
<td>Output power (20 or 23 dBm input)</td>
<td>From 30 to 42 dBm</td>
</tr>
<tr>
<td>Input power range</td>
<td>20 to 23 dBm, 23 to 25 dBm</td>
</tr>
<tr>
<td>APC Tunability</td>
<td>10 to 100 %</td>
</tr>
<tr>
<td>Power stability (rms over 1 hr)</td>
<td>&lt;1 % or &lt;2 %</td>
</tr>
<tr>
<td>Narrow linewidth (&lt;100 kHz) amplification</td>
<td>Option</td>
</tr>
<tr>
<td>Input / output termination</td>
<td>FC/APC or collimated 2</td>
</tr>
</tbody>
</table>

1: Other wavelength ranges available for special request
2: Ask for diameter.

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**The CYFA-BO is available as turn-key benchtop or as OEM module.**

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**RELIABILITY**

The Lumibird range of fiber amplifiers are manufactured with tested components and are submitted to several inspections during the manufacturing process under a rigorous quality management certified in accordance with the ISO 9001:2015 standard. Our all-in-fiber systems offer maintenance-free operation. Countless units are continuously running in demanding environments with no failure.

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**GUARANTEE**

Our fiber systems are under 1 full year parts and labor warranty. We offer a warranty extension of 1 or 2 years. Please contact us.