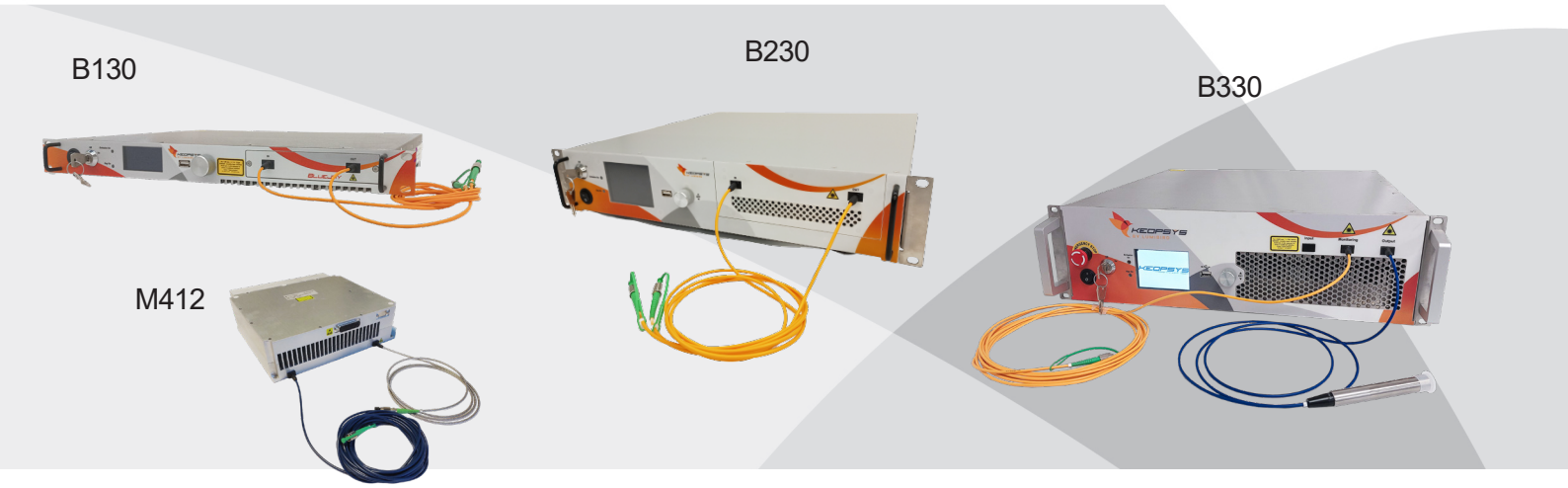
CYFA-PB

CW Ytterbium Fiber Amplifier with Pre-Booster



MAIN FEATURES

- Up to 42 dBm of saturated output power
- Built-in pre-amplifier for low input power
- Polarization-maintaining
- Wide choice of optical bandwidths
- Narrow linewidth operation (optional)
- Turnkey benchtop or OEM module versions available
- High reliability

MAIN APPLICATIONS

- OPTICAL COMPONENT TESTING
- NON-LINEAR OPTICS
- HELIUM PUMPING
- MATERIAL CHARACTERIZATION
- ATOMIC COOLING
- QUANTUM OPTICS

The CYFA-PB series are Ytterbium Fiber Amplifiers designed for single channel amplification in the 1 µm range with polarization-maintaining fiber.

The wide range of operation makes these amplifiers suitable for many applications, such as quantum optics, non-linear optics, materiel characterization, etc.

They can deliver a saturated output power up to 42 dBm and include a pre-amplifier stage which allows them to be seeded with signals down to 0 dBm.
Several amplification bandwidths are available from 1029 to 1114 nm. They offer a high optical signal to noise ratio (OSNR) at the output.
Their unique optical design allows the amplification of narrow linewidth sources.

The CYFA-PB are available in benchtops or compact OEM modules. The benchtop platforms offer the possibility to control the amplifier via the front panel or remotely via serial USB and Ethernet ports. Both models offer robustness and reliability.

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Many options and configurations are available. Please contact Lumibird to find the best match for your needs and compatibility between options.

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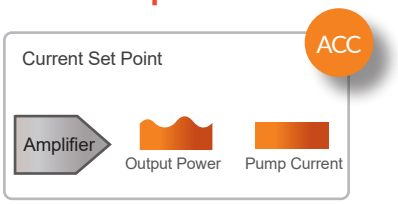
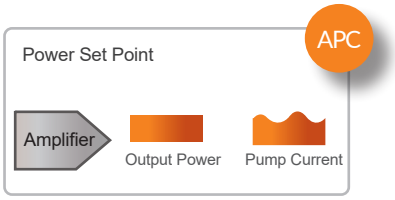
SPECIFICATIONS

	CYFA-PB
Mode of operation	CW
Wavelength range (nm)	1029 to 1035 (BW01), 1046 to 1059 (BW03), 1060 to 1075 (BW04), 1076 to 1090 (BW05), 1110 to 1114 (BW06)
Saturated output power at minimum input	From 30 to 42 (depending on the model)
Input power range (dBm)	0 to 15 (BW03, BW04, BW05) or 5 to 20 (BW01, BW06)
Polarization	Linear (PER > 17 dB)
Input power monitoring	Yes
Output power monitoring	Optional, depending on the model
Control mode	ACC, APC if available
Output power tunability (%)	10 to 100 or 15 to 100 (depending on the model
Output fiber type	PANDA single mode or LMA (depending on the model)
Input / output termination	FC/APC or collimator

Mode of operation



ACC (Automatic Current Control)



APC (Automatic Power Control)

EASY TO CONTROL !

Benchtop

Control box for modules

computer not included

Control of device

· User-friendly benchtop with dial and front panel display for easy control and monitoring of the product

· Modules with optional control box and cables for easy evaluation

Remote control

- USB port for benchtop
- Command set provided
- GUI available for modules and as an option for benchtops
- Web server, Telnet, SSH protocols

Reliability

All our fiber lasers and fiber amplifiers are manufactured according to our ISO certified quality management system, which places the needs and values of customers and partners at the heart of our organization. Throughout the manufacturing process, our components and systems are subjected to rigorous tests and inspections, which guarantees their robustness and reliability in the most demanding environments. Countless units operate continuously without maintenance around the world. The ISO 9001 certificates can be downloaded from our website.

ISO 9001:2015

LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

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