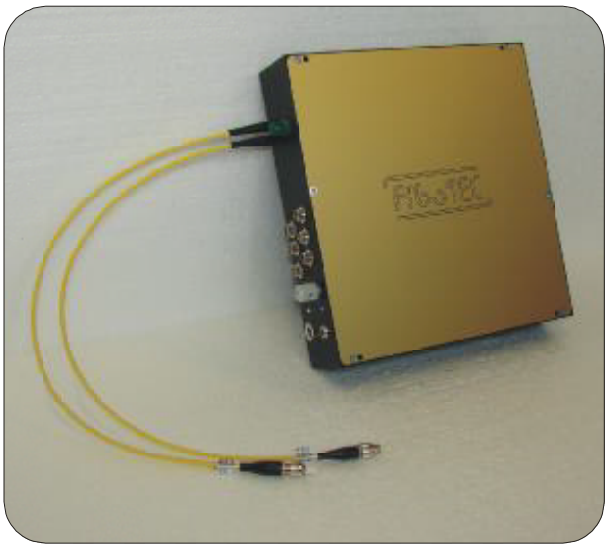
# Fibolux



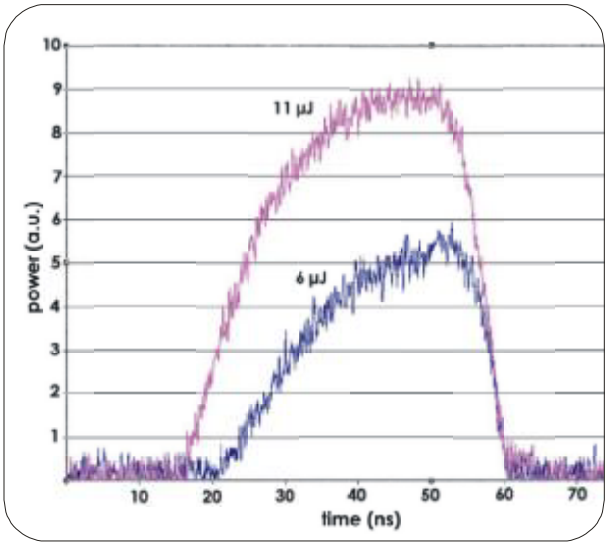
## Features:

- high peak power
- excellent beam profile over life time
- low power consumption



## Pulsed Fiber Amplifier MOPA

These light sources are compact master oscillator - power amplifier (MOPA) setups that can be directly modulated within certain limits of repetition rate and pulse power. Standard products operate at around 1.5 µm wavelength at a repetition rate of > 6 kHz and a pulse power of 10 µJ/50 ns (200 W peak).




1050-1090 nm wavelength is available on request. Customer specific products at both wavelength windows with an additional booster amplifier stage permit much higher repetion rates (above 50 kHz) or peak power (2 kW).

The high power density and the excellent beam parameter product after decoupling into freespace make these light sources a preferred choice for many test and measure-ment applications. Especially mobile range finders, scanners and LIDAR-systems can benefit from the beam quality in connection with the low power consumption.

FIBOTEC

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## **Specifications:** Pulsed Fiber Amplifier MOPA

| Parameter | FL-Er 23 C1P FCA M01 | unit |
|---|---|---|
| wavelength range | 1530-1565 | nm |
| optical power average | 23 | dBm |
| pulse energy | > 10 | µJ |
| pulse width (FWHM) | typ. 50 | ns |
| repetition rate | 6-20 | kHz |
| pulse energy @100 kHz | 2 | µJ |
| return loss | typ. -50 | dB |

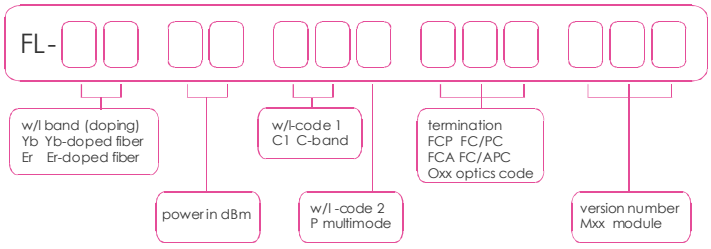
| Pin | designation |
|---|---|
| 1-4 | + 5 V |
| 5-8 | GND |
| 9 | $P_{out}$ Monitor |
| 10 | Enable 1 |
| 11 | Enable 2 |
| 12 | LOS |
| 13 | Temp Error |
| 14 | Range Error |
| 15 | $P_{in}$ Monitor |
| 16-20 | N.C. |

**Options:**

A: booster stages (average power output > 1 W)
B: collimation optics
C: version with Yb-doped fiber (1060 nm - region)
D: customized packages and modules
E: customized seed sources

Please indicate requirements by selecting options from the table or filling in desired values that still need to be confirmed by the manufacturer.

ordering information:




Please note that some combinations of options are not available.
Contact factory for availability and special housings like rack-mounting.

**Specification:**

| | |
|---|---|
| size: | 145 x 100 x 17 cmm (module) |
| | 210 x 290 x 95 cmm (instrument) |
| weight: | < 500 g (instrument < 4 kg) |
| supply: | 4 A max. @5V DC (module) |
| | < 40 W @100-240 V AC/50-60 Hz (instrument) |
| working temperature: | 0°C-40°C (non-condensing) |
| storage temperature: | -40°C-85°C |
| complies with CE | |