

Ytterbium Fiber laser

YFL-1083 series

2006-08-24 - v1.0



Applications: He pumping
Form factor: Benchtop 19" Rackable 2x BT
product reference: KPS-STD-BT-1083-YFL-20-xxx-yy-zz

Optical Specifications:

| | Conditions | Unit | YFL-05 | YFL-10 | YFL-20 | YFL-30 | YFL-40 | YFL-50 | YFL-100 | YFL-150 | YFL-200 | | |
|----------------------------|---------------|------|--------------------|--------|--------|--------|--------|--------|---------|---------|---------|--|--|
| Mode of operation | | | CW | | | | | | | | | | |
| Nominal output power | | W | 0,5 | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 20 | | |
| Central wavelength. | vacuum | nm | 1064 +/-5 | | | | | | | | | | |
| Optical configuration | | | MOPA | | | | | | | | | | |
| Input/Interstage isolation | | | Yes | | | | | | | | | | |
| Output isolation | | | Option | | | | No | | | | | | |
| Output monitoring | | | Option | | | | No | | | | | | |
| Piezzo tuning | | | No | | | | | | | | | | |
| WI. Tunability | | nm | With PZT: min: 0,5 | | | | | | | | | | |
| Control Mode | | | ACC, APC option | | | | ACC | | | | | | |
| APC Pw. Tunability | | % | 55-100 | | | | - | | | | | | |
| APC Pw. Stability | 8h, 25°C | %rms | max: 5 | | | | - | | | | | | |
| WI. Stability | over 8h, 25°C | nm | +/-0,1 | | | | | | | | | | |
| Linewidth | FWHM | GHZ | max: 2 | | | | | | | | | | |
| M ² | LPO1 | | max: 1.1 | | | | | | | | | | |

Optical Interface:

| | YFL-05 | YFL-10 | YFL-20 | YFL-30 | YFL-40 | YFL-50 | YFL-100 | YFL-150 | YFL-200 | |
|----------------------------|----------------------------------|--------|--------|--------------|--------|--------|---------|---------|---------|--|
| Output termination options | FA, Col, B | | | Col, B | | | | | | |
| Output pigtail | SM, 6/130, NA 0.11, 3mm, PVC, 1m | | | | | | | | | |
| External fiber restriction | - | | | No connexion | | | | | | |
| Backreflection | Limited | | | | | | | | | |
| Injected linewidth | Limited | | | | | | | | | |

Electrical, Environmental and Packaging:

| Electrical Specification: | Unit | BT | 2x BT |
|-----------------------------|------|------------------------|------------------------|
| AC Voltage | V | 85 to 264 VAC, 47-63Hz | 85 to 264 VAC, 47-63Hz |
| Power Consumption | W | <300 | <300 |
| Interface | | RS232 and GPIB | RS232 and GPIB |
| Environmental | | | |
| Operating Temperature | °C | From 15 to 35 | From 15 to 35 |
| Storage Temperature | °C | From -20 to 55 | From -20 to 55 |
| Warm up time | min | <30 | <30 |
| Dimension and Weight | | | |
| Dimensions Laser module | mm | 88x448x446 | 2x (88x448x446) |
| Weight | Kg | <5 | <10 |

Options available:

- xxx = IN monitoring or PZT, ISO, APC / OUT monitoring options (see specifications)
- yy = non available
- zz = output termination option

Connectors:

FA=FC/APC; SA=SC/APC; FP=FC/SPC; SP=SC/SPC
E2PS=E2000 HP + Patchcord for adaptation
Col=Collimated, for free-space use; B=Bare Fiber

All products comply with IEC 60825-1 and FDA (21 CFR Subchapter J) laser safety standards.

Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to the highest technical standards. As a result, the specifications in this document are subject to change without notice.



HEADQUARTERS

KEOPSYS SA.
21 rue Louis de Broglie
22300 Lannion, France
Tel: +33 2 9605 0800
Fax: +33 2 9605 0801

US OPERATIONS

KEOPSYS Inc.
16 White Bridge Road
Pittstown, NJ 08867, USA
Tel: +1 (908) 238-0898
Fax: +1 (908) 238-9178

websales@keopsys.com
www.keopsys.com

