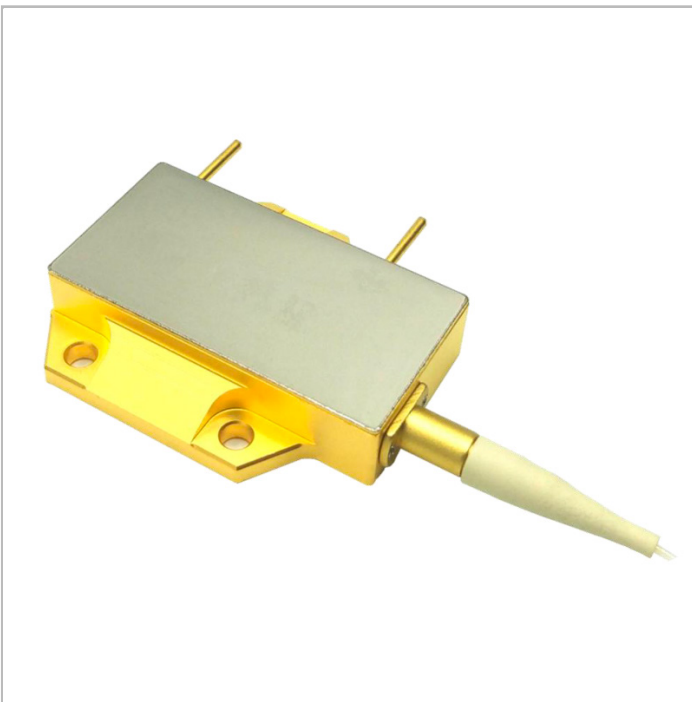




Offered by  
**LASER LAB SOURCE**

manufactured by  
**Xinghan  
Laser Technology**

## 976nm, Wavelength Stabilized Laser Module 60W Output Power, 105 $\mu$ m Fiber-Core



### **976NM, 60W LASER DIODE, WAVELENGTH STABILIZED**

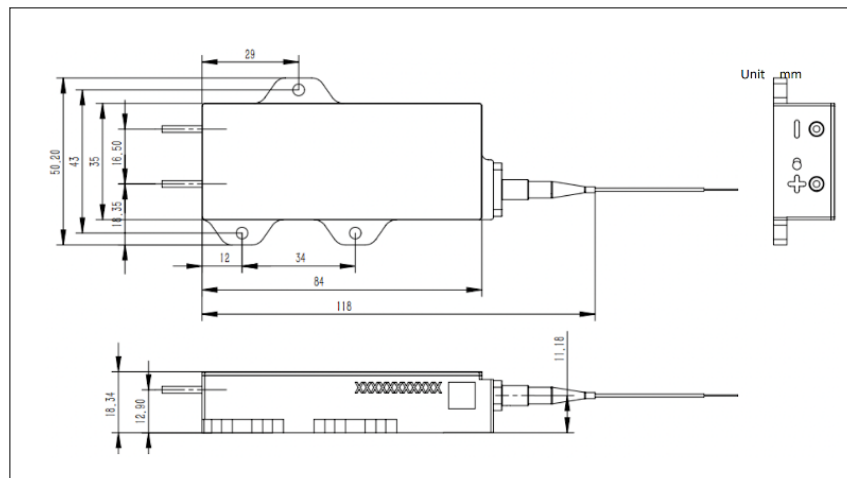
- o Output Power (CW mode): 60 W
- o Spectral Width (FWHM): < 0.5 nm (typ)
- o High Heat Load Package
- o Optical Fiber-Coupled, 105 $\mu$ m Core
- o Bare-Fiber Termination

## HIGH POWER 976NM LASER DIODE MODULE, 105 $\mu$ m FIBER

These high power 976nm laser diodes are wavelength stabilized for precision output, and are packaged in a high heat-load package. The package is designed to easily mount to a heatsink.

The laser is provided with 105 $\mu$ m core optical-core fiber (NA 0.22), with a bare-fiber termination.

Xinghan lasers are known for their robust construction, and long operational life-times.



## OPTICAL SPECIFICATIONS

- Output Power: 60 Watts
- Center Wavelength: 976nm ( $\pm 0.5$ nm)
- Spectral Width(FWHM):  $\leq 1$ nm
- 95% Power in NA: 0.17 NA
- Back Reflection Isolation Range: 1040-1200 nm
- Back Reflection Isolation: 30 dB



## FIBER SPECIFICATIONS

- Fiber Core Diameter: 105  $\mu$ m
- Fiber Clad Diameter: 125  $\mu$ m
- Numerical Aperture: 0.22 NA
- Fiber Length: 1.5 ~ 2.0 meters
- Loose Tubing Diameter: 900  $\mu$ m
- Loose Tubing length: 1.2 ~ 1.5 meters
- Fiber Connector: (none) Bare Fiber
- Fiber Bend Radius: 30 mm

## ELECTRICAL SPECIFICATIONS

- Maximum Operating Current: 10.5 Amps
- Maximum Operational Voltage: 13.5 Volts

## THERMAL SPECIFICATIONS

- Operating Temperature Range: 15°C-35°C
- Storage Temperature Range: -30°C-70°C
- Lead Soldering Temperature: 300°C for 10 Seconds

## **PRODUCT SALES AND SERVICE:**

Orders for this product are fulfilled by Laser Lab Source in North America and select International regions. It is manufactured by Xinghan Laser, Beijing, China.

## **PRODUCT WARRANTY:**

This product is sold with a full one year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



Laser Lab Source, a division of Research Lab Source Inc.  
670 S. Ferguson St., Suite 3  
Bozeman, MT 59718 USA

Phone: 406-219-1472

[www.LaserLabSource.com](http://www.LaserLabSource.com)