

Single Mode Ytterbium Fiber Laser



FL-10W-1060 Fiber Laser with RS-232/USB



Product Features

- RS-232 or USB Controlled, Instrumentation Ready
- Air-cooled
- Maintenance Free
- Compact & Rugged Integrated in a Single Package

Applications

- Marking & Micromachining
- Medical Equipment
- Sensing & Optical Tweezers
- Scientific Equipment

World Star Tech's single mode high power "ytterbium fiber laser" demonstrates excellent spectral quality in a single package. The proprietary all-fiber laser architecture offers high power densities in a compact, robust, and maintenance-free design for many exciting applications.

Ytterbium fiber laser is ready to use for applications such as laser marking, lidar, optical tweezers, sensing, medical, scientific and other high growth applications. The fiber laser output power is available from 5 W to 15 W. The higher output power lasers are available upon request.

Single-mode, 1064 nm Ytterbium fiber lasers can also be used as efficient pump sources for generating laser wavelengths in the visible region for various applications.

World Star Tech's Ytterbium fiber lasers are maintenance-free and specifically designed and fabricated for OEM applications.

It is available as randomly polarized or polarized continuous wave (CW) output with excellent spectral quality. The modules can be integrated directly into marking, micromachining, scientific and medical equipment.

Operational Hazard-Semiconductor Laser Diode Module: This laser module emits radiation that is visible/invisible and harmful to human eye. When in use, do not look directly into the laser emitting aperture. Direct viewing of laser diode emission at close range may cause eye damage.

Limited Warranty: One year. No warranty coverage for disassembly, modifications or damage due to abuse or misapplication.

Specifications

OPTICAL

Wavelength	1064 nm
Optical Output Power	10W Higher power output available upon request
Output Stability	<3 %
Bandwidth	< 0.2 nm
Single Mode Fiber NA	0.1 NA
Mode Field Diameter	11 micron
Polarization	Random, PM fiber is available upon request
Interface	RS-232/USB
Warm-Up time	< 1 min

ELECTRICAL

Operating Voltage	6 V DC
Operating Current	<5 A
Control Circuit	Constant Current Control

MECHANICAL

Dimension, mm	150 (L) x 100 (L) x 25 (L)
Operating Temperature	+10°C to +40°C
Storage Temperature	-40°C to +80°C

