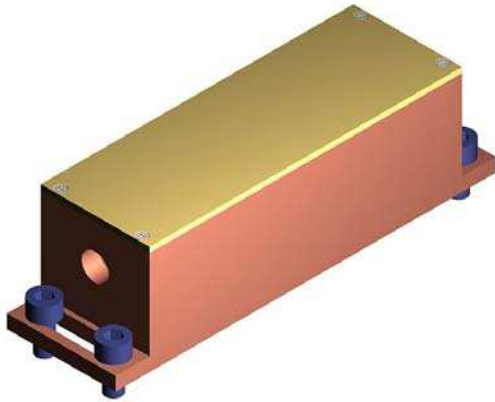


# Diode-Pumped Solid-State Blue Laser

Part No: *TECBL-20G-473*



## Product Features

- Solid-state laser
- High Stability
- Low power noise

## Applications

- Spectroscopy
- Bioanalytical
- Displays
- Light scattering

## Operating Instructions

**Caution note:** Please read the complete instruction before attempting to operate the laser. Operating this laser using controls or performance procedures other than those specified herein may result in hazardous laser light exposure or may damage the laser.

To assemble

- Mount the laser head on the heat sink,
- Remove the shorting jumper from the laser head cable,
- Connect the laser head cable to the controller,
- Connect the power supply cable to the controller.

To start

- Plug-in the power supply to the outlet - the laser is ON,
- After 15 min warm-up time the laser is ready.

To stop the laser unplug the power supply.

## Specification

| OPTICAL                       |                        |
|-------------------------------|------------------------|
| Wavelength                    | 473 nm                 |
| Optical Output Power          | 20 mW                  |
| Power stability               | <1%                    |
| Laser Class                   | Class IIIB             |
| Laser Operation               | Continuous             |
| Laser Structure               | Single Mode Laser      |
| Spatial mode                  | TEM <sub>00</sub>      |
| Beam shape                    | Circular (1:1.3)       |
| Beam Divergence               | <1 mrad                |
| Spot Size at aperture at FWHM | 0.3 mm                 |
| Polarization                  | >300:1, vertical       |
| Warm-up time                  | 15 min                 |
| ELECTRICAL                    |                        |
| Operating Voltage             | 5 V                    |
| Operating Current             | 7.5 A peak             |
| MECHANICAL                    |                        |
| Laser Dimension               | 40 mm x 40 mm x 140 mm |
| Controller Dimension          | 69 mm x 25 mm x 153 mm |
| Cable Length                  | 0.6 m                  |
| Operating Temperature         | +25°C to +30°C         |
| Storage Temperature           | -40°C to +80°C         |
| Heat Sink Requirements        | 5 W dissipation        |



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