



## FCL1550 Series 1550nm High Power Fiber Coupled Diode Laser System up to 15W

### Overview

The FCL1550 series fiber coupled diode laser is ideal for applications that require a wavelength of 1550nm and output power levels up to 15W. The laser features an integrated laser diode, fiber coupling optics, laser power supply, LD current and temperature control in one box. Its compact dimensions and convenient functions, including but not limited to power adjustment, temperature control, and LED display make the laser suitable for pumping, scientific research, industrial and medical applications.



### Specifications

|                                     |  |                          |
|-------------------------------------|--|--------------------------|
| <b>Model Number</b>                 | <b>FCL1550-XPQZ-A</b>                      |                          |
| Wavelength (nm)                     | 1550±20                                    |                          |
| Operating mode                      | CW   |                          |
| Output power after fiber (W)        | ~10 ( <b>X=10W</b> ), ~15 ( <b>X=15W</b> ) |                          |
| Power stability (rms, over 4 hours) | <1% ( <b>P=D</b> )                         |                          |
| Fiber core diameter                 | 400um                                      |                          |
| Fiber numerical aperture            | 0.22 NA                                    |                          |
| Fiber connector                     | SMA905                                     |                          |
| Fiber length (m)                    | 2  |                          |
| LED display                         | Diode current                              |                          |
| LD temperature control range (°C)   | 15-30, adjustable by knob                  |                          |
| Output power control                | 0-100%, adjustable by knob                 |                          |
| Operating temperature               | 10-40°C                                    |                          |
| Red pilot light option              | No ( <b>Z=N</b> ), Yes ( <b>Z=R</b> )      |                          |
| Dimensions of laser (mm)            | 406(L)×370(W) ×186(H)                      |                          |
| Weight of laser (kg)                | <15 kg                                     |                          |
| Power consumption (KVA)             | <0.5                                       |                          |
| Input power                         | 90-264VAC, 50 to 60Hz                      |                          |
| Cooling method                      | Air cooled                                 |                          |
| Modulation option                   | None ( <b>Q=0</b> )                        |                          |
|                                     | TTL  | 1Hz-1kHz ( <b>Q=T1</b> ) |
|                                     | Analog                                     | 1Hz-1kHz ( <b>Q=A1</b> ) |
| Optional accessories                | <a href="#">Fiber Collimator</a>           |                          |
| Expected lifetime (hours)           | 10,000                                     |                          |
| Warranty period                     | 10 months                                  |                          |

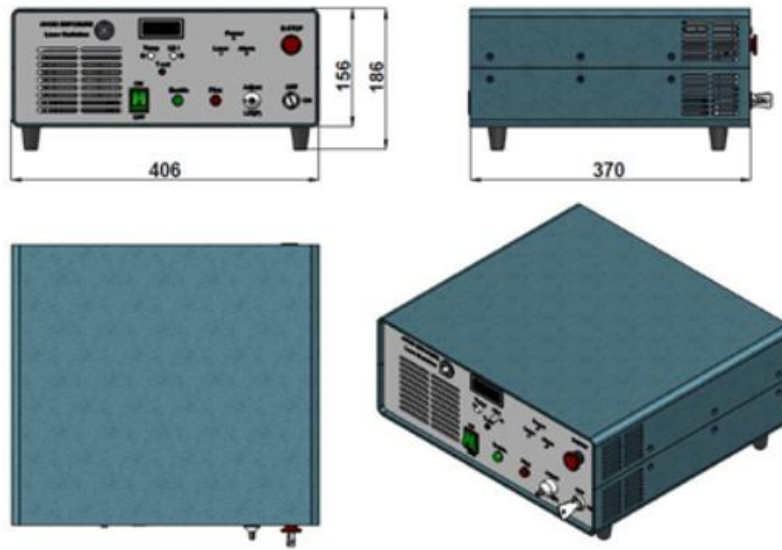
#### Remarks:

- The laser can be run from 0-30kHz. However, the laser will be adjusted such that the waveform and performance is good at the requested specified range.
- Specifications of the CW laser is based on the laser performance at full power output after the specified warmup period. The stability of output power may change when output power is adjusted at a different power level.



**Outline Dimensions (unit: mm)**

**Laser**



Note: The above specifications are subject to change without notice.