

# 2 Micron Fiber Laser Series

Small, air-cooled form factor with QCW power up to 650W.



nLIGHT® 2  $\mu\text{m}$  series Continuous Wave (CW) and Quasi-Continuous Wave (QCW) fiber lasers deliver CW power up to 100 W and QCW pulsed power up to 625 W from a compact, air cooled, 48 V DC powered package. These highly reliable and energy efficient lasers operate at 1940nm wavelength and provides up to 7J of energy for your most demanding applications. Options include a high-power multi-mode output or a medium power single mode output, ideal for a diverse set of medical, industrial, scientific, aerospace and defense applications.

## Features

- 60W to 100W CW models provide power level and pulse energy options to support a range of applications.
- Customizable interface location and fiber length for ease of system integration.
- 625W of peak power & pulse widths as short as 50 us
- Equipped with air cooled package, eliminating need for a water chiller.



## nLIGHT 2 $\mu\text{m}$ CW and QCW Fiber Laser Specifications

Models	TFL-60	TFL-100
<b>Optical Specifications</b>		
Mode of Operation	CW / QCW	
Polarization	Random	
Maximum Peak Power	625 W	
Maximum CW Power	60 W	100 W
Power Tunability	3 – 100%	
Modulation Frequency	$\leq 10$ kHz	
Rise and Fall Times	$\leq 10$ $\mu\text{s}$	
Maximum Pulse Energy	7 J	
Output Beam	Single mode, 22 $\mu\text{m}$ MFD	Multi-mode, 75 $\mu\text{m}$ core
Beam Quality	<1.3	<5
Wavelength	1940 $\pm$ 10 nm	
<b>Electrical Specifications</b>		
Operating Voltage, DC	48 V	
Control Interface	External hardware	
<b>Mechanical Specifications</b>		
Dimensions	540 x 481 x 179 mm	
Optical Fiber	0.9 m, FC/A connector	
Cooling Method	Air	
<b>Environmental Specifications</b>		
Operating Temperature	+15 to +30°C	
Storage Temperature	-10 to +60°C	
Relative Humidity	10 to 80%	



nLIGHT continually improves its products to provide customers outstanding quality and reliability. The information contained herein is subject to change without notice. nLIGHT, Inc. shall not be liable for technical or editorial errors or omissions contained herein. Warranties are set forth in express warranty statements accompanying products. Nothing herein should be construed as constituting an additional warranty. For details, please contact your nLIGHT sales representative.

[sales@nlight.net](mailto:sales@nlight.net) | [www.nlight.net](http://www.nlight.net)