## 2 Micron Fiber Laser Series

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



nLIGHT® 2 μm 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 µm CW and QCW Fiber Laser Specifications

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Models	TFL-60	TFL-100
Optical Specifications		
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	≤ 10 kHz	
Rise and Fall Times	≤ 10 µs	
Maximum Pulse Energy	7 J	
Output Beam	Single mode, 22 µm MFD	Multi-mode, 75 µm core
Beam Quality	<1.3	<5
Wavelength	1940 ± 10 nm	
Electrical Specifications		
Operating Voltage, DC	48 V	
Control Interface	External hardware	
Mechanical Specifications		
Dimensions	540 x 481 x 179 mm	
Optical Fiber	0.9 m, FC/A connector	
Cooling Method	Air	
Environmental Specifications		
Operating Temperature	+15 to +30°C	
Storage Temperature	-10 to +60°C	
Relative Humidity	10 to 80%	