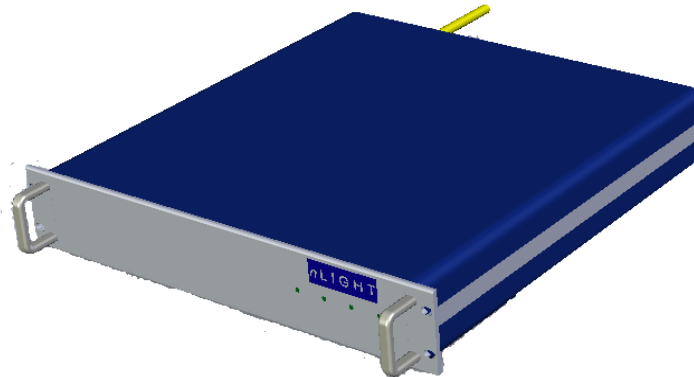


Alpha Release



OptoTools medium power CWFL provides a robust, high-brightness solution specifically designed for rigors of the material processing industry.

The OptoTools CWFL platform integrates the best of nLIGHT's industry-leading technologies to deliver a highly effective, medium power fiber laser solution:

- Powered by Pearl™ single-emitter diode laser modules, which set the standard of excellence in high-performance, high-reliability diode lasers
- Leveraging Liekki™ fiber with proprietary Direct Nano-particle Deposition (DND) technology that provides high efficiency and minimizes photodarkening

Features

- Power up to 400W
- WPE 25%
- *Powered by Pearl™* SE diode laser engine
- Liekki™ DND fiber technology
- Simple, plug and play integration
- 19" rack mountable

Applications

- Cutting
- Welding
- Soldering and bonding
- Annealing
- Sintering
- Micro-machining

Proven Performance

Typical Device Performance

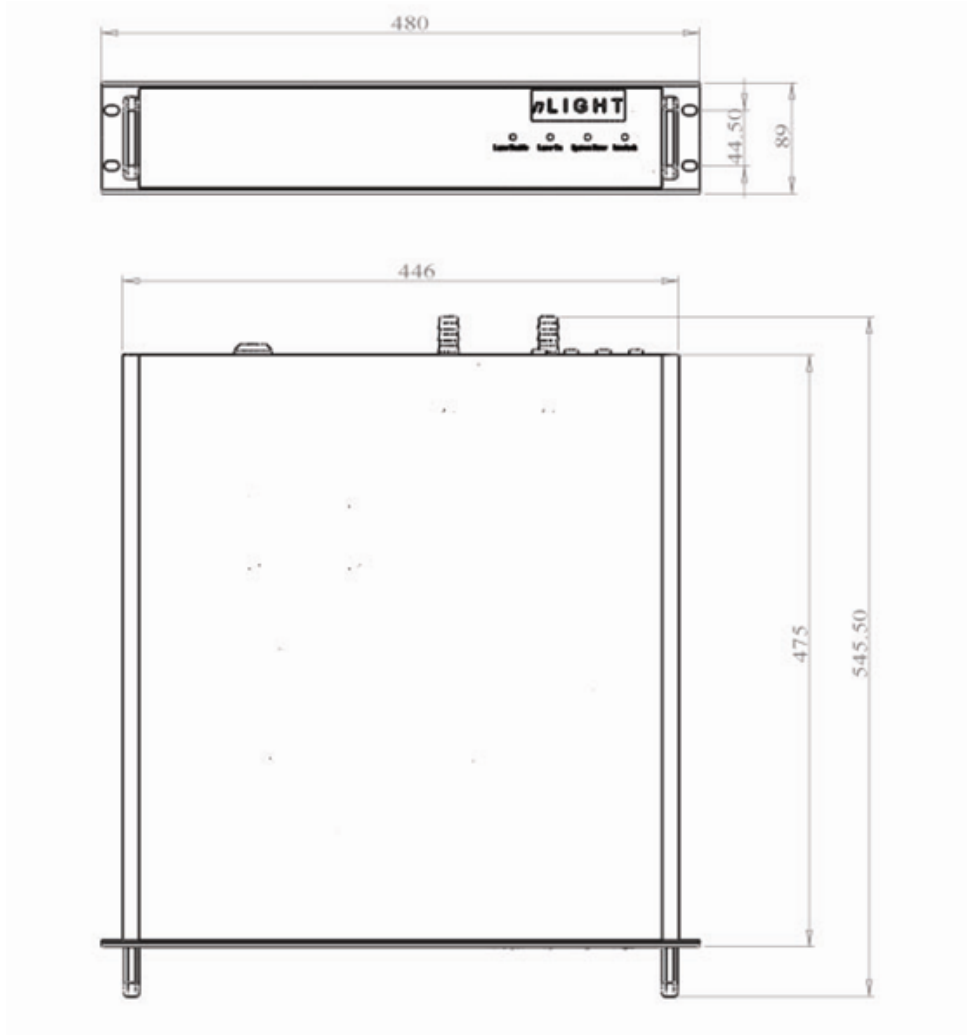
Optical		NL-CWL-200-1085	NL-CWL-300-1085
Mode of operation		CW	
Polarization		Random	
Wavelength	nm	1085 ±5	
Emission line width (FWHM)	nm	5	
Nominal output power	W	200	300
Output power range	%	10-100	
Output power stability	%	1	
Fiber length	m	3	
Beam quality	M ²	1.8	
Electrical			
Operating voltage	VDC	34	
Operating current	A	50	
Power consumption (at 20°C)	W	1500	
Modulation			
Rise/Fall time	µs	>100	<5
Modulation Frequency	kHz	0-5	0-20
Duty ratio	%	0-100	
AC inputs available upon request			
Mechanical			
Dimensions		2U	
Output fiber connection**		HighYAG LLKF	
Output fiber length**	m	5-10	
Minimum fiber cable bend radius	mm	80	
Weight	kg	18	
Cooling method***		Conduction cooled components on non-DI water-cooled heat sink	
General condition			
Operating temperature	°C	+5 to +50	
Storage temperature	°C	-10 to +60	
Cooling water temperature	°C	20 ±5	
Relative Humidity	%	5 to 95	

*May be customized

** A non-condensing environment is required for storage and operation. Therefore, the cooling water temperature must be higher than the ambient dew point.

***All cooling water must be drained for storage/shipping

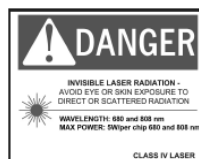
Package Dimensions



CFR Regulation

These components do not comply with the federal regulation (Title 21 CFR, Chapter 1, Subchapter J) as administered by the Center for Device and radiological Health. Purchaser acknowledges that their products must comply with these regulations before they can be sold to an end-use.

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Notice

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