

CorALIGHT CLM Series CW OEM Fiber Laser Modules

PRODUCT OVERVIEW

CorALIGHT CLM Series of OEM fiber laser modules are specifically designed for industrial materials processing applications. CLM modules are made from CorActive truly photodarkening-free optical fiber and are built to meet the highest standards of reliability and performance. The CLM Series modules include a sealed optical engine with built-in control and monitoring electronics ready for integration into our customer's equipment.

“CorActive’s OEM fiber laser modules meet the needs of laser system manufacturers looking for a truly cost-effective and customizable fiber laser solution.”

CorActive’s OEM fiber laser modules meet the needs of laser system manufacturers looking for a truly cost-effective and customizable fiber laser solution. CorALIGHT CW OEM laser modules allow our customers to leverage CorActive know-how and expertise in specialty fiber and fiber laser design.



CorALIGHT CLM Series

ADVANTAGES

- Truly photodarkening-free optical fiber
- High Efficiency
- High-Reliability sealed optical engine
- Simple, rugged and cost-optimized optical architecture
- Basic control&monitoring electronics
- Optical cable delivery with industry-standard connectors
- Cooling hardware
- User Friendly PC Labview Graphical Interface
- Easy integration into OEM systems

APPLICATIONS

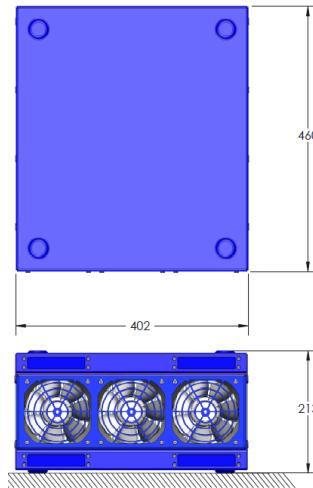
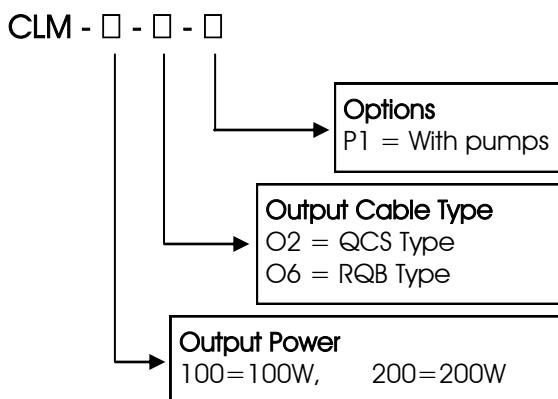
- Micro-machining
- Rapid Prototyping
- Fine Cutting
- Precision Welding
- Medical Device Manufacturing



SPECIFICATIONS

Optical	Units	CLM-100	CLM-200
Mode of Operation		CW	
Polarization		Random	
Lasing Wavelength	nm	1080±5	
Pump Wavelength	nm	965±5	
Nominal Output Power	W	100	200
Output Power Loss	%	< 1 (over 1000 hours)	
Laser Slope Efficiency @ 965nm	%		> 60
Modulation Frequency	kHz		10
Output Beam Characteristics			
Optical Head		QCS Type	
Beam Quality (M ²)		< 1.1	
Beam Diameter	mm	< 5.5	
Beam Parameter Product	mm*mrad	< 5.5	
Cable Length	m	> 5	
Mechanical			
Cooling		Air	
Approx. Enclosure Dimensions	mm	405x460x215	
Weight	kg	37	
Electrical			
Input/Output Interface		DB-25 Connector	
RS-232 Interface		DB-9 Connector	
Power Supply	VDC	24VDC/48VDC	
Environmental			
Operating Temperature	°C	5 - 40	
Operating Humidity	%	10-80 RH (non condensing)	

CONFIGURATIONS



CorActive's CorALIGHT CW OEM fiber laser modules are specifically designed for industrial materials processing applications.

CorALIGHT modules feature a sealed optical engine with built-in control and monitoring electronics ready for integration into our customer's equipment.

CorActive
Specialty Optical Fiber Manufacturer

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