

CW OEM Fiber Laser Modules

PRODUCT DESCRIPTION

Manufacturers of laser systems are facing increased pressure to reduce prices and come up with innovative and cost-effective technologies. As such, fiber lasers have shown great promises over the last few years and are increasingly capturing market shares from solid-state and CO₂ lasers. But the market for high-power CW fiber lasers is captive with a very limited amount of competitive suppliers.

CorActive's customizable OEM modules meet the needs of laser system manufacturers looking for a truly cost-competitive and differentiated fiber laser solution. CorActive CW OEM fiber laser modules allow our customers to leverage CorActive know-how and expertise in specialty fiber and fiber laser design. CorActive FLA and FLW Series of air-cooled and water-cooled laser modules are specifically designed for high-power CW laser applications.

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

ADVANTAGES

- Based on CorActive truly photodarkening-free fiber
- Complete optical engine, fully tested and optimized to reduce development costs and accelerate time-to-market
- Customizable:
 - Different levels of integration offered
 - Optimized optical performance to meet specific application requirements
 - Different form-factor available to easily integrate into OEM laser systems
- Proprietary heat management solution

APPLICATIONS

- Materials Processing
- Micro-machining
- Fine Cutting
- Precision Welding



PRODUCT SPECIFICATIONS

Optical		100W	200W
Mode of Operation		CW	
Polarization		Random	
Lasing Wavelength	nm	1080±5	
Pump Wavelength	nm	965±5	
Pump Combiner Type		7x1	19x1
Pump Delivery Fiber	um	105/125, 0.15NA	
Nominal Output Power	W	> 100	> 200
Output Power Reduction	%	< 1 (over 1000 hours)	
Laser Slope Efficiency @ 965nm	%	> 60	
Laser Beam Quality (M ²)		< 1.1	

Optional Beam Delivery

Type		Optoskand QCS Model	
Beam Diameter	mm	< 5.5	
Cable Length	m	> 5	

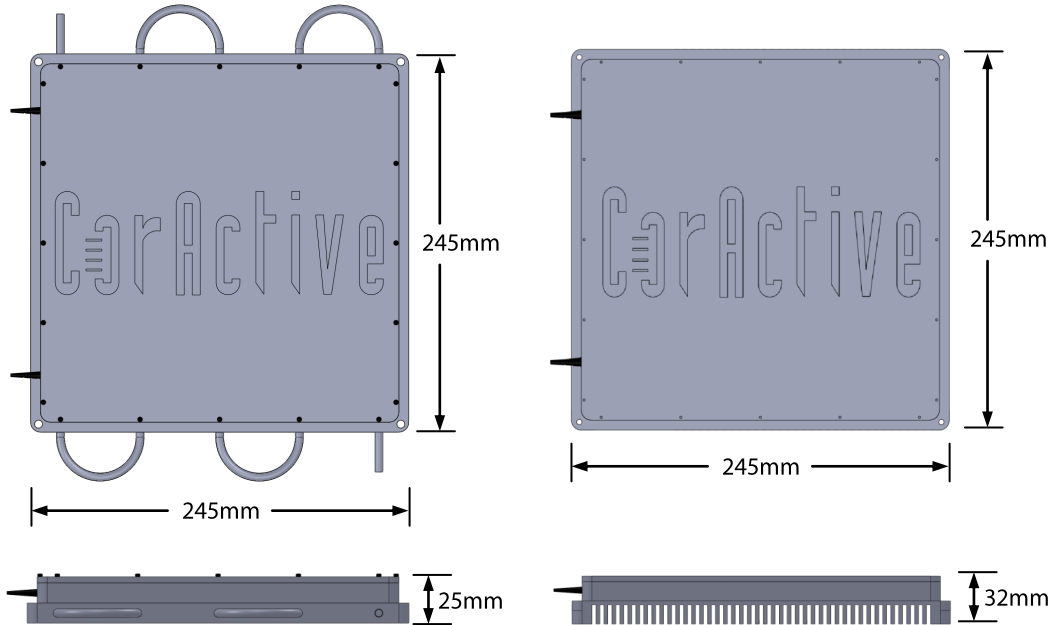
Mechanical

Cooling		Air or Water	
Approx. Enclosure Dimensions	inch	9.5 x 9.5 x 1	9.5x9.5x1.25

Environmental

Operating Temperature	°C	5 - 40	
Operating Humidity	%	5 - 85 RH (non condensing)	

PRODUCT DIMENSIONS



FLW Model

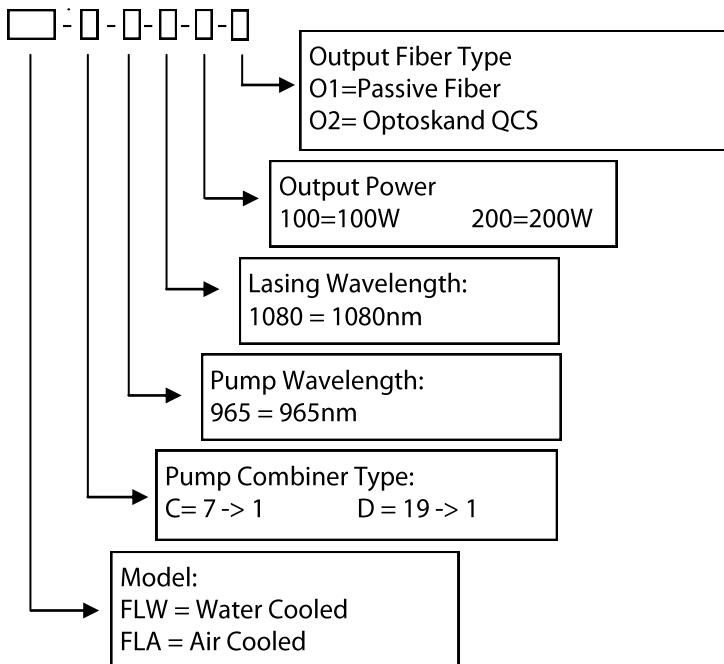
FLA Model

CorActive FLA and FLW Series of air-cooled and water-cooled laser modules are specifically designed for materials processing applications.

FLA and FLW Series of OEM modules are complete optical engine, fully tested and optimized to reduce development costs and accelerate time-to-market.

ORDERING INFORMATION

FLW & FLA SERIES



CorActive
Specialty Optical Fiber Manufacturer

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