

CorActive CFLS Series of High-Power CW Fiber Lasers

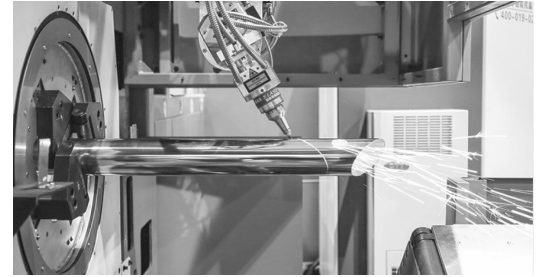
INTRODUCTION

CorActive CFLS series of high power fiber lasers was developed by a team of seasoned fiber laser specialists. CorActive has been involved in high power fiber lasers for more than 10 years.

"CorActive CFLS lasers offer the best value for money on the market. Why sacrifice quality for price when you can get both?"

CFLS fiber lasers are specifically designed for industrial materials processing applications such as metal cutting and welding, laser cladding, or additive manufacturing. The CFLS Series of fiber lasers are made from CorActive unique and truly photodarkening-free phosphosilicate gain fiber.

CorActive CFLS lasers offer the best value for money on the market and feature outstanding long-term stability in a highly robust and reliable design.



ADVANTAGES

- Best value for money on the market
- Optical engine designed in Canada
- Fast service
- Outstanding long-term stability with CorActive unique photodarkening-free phosphosilicate gain fiber
- Industrial-grade design
- Highly reliable
- Built-in climate control unit for use in harsh environments

APPLICATIONS

- Metal Cutting
- Welding
- Laser Cladding
- Additive Manufacturing

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SPECIFICATIONS

Optical Specifications	Units	CFLS-1500	CFLS-2000	CFLS-3000	CFLS-4000	CFLS-6000	CFLS-8000	
Mode of Operation		CW/Modulated						
Polarization		Random						
Wavelength	nm	1080 ± 5						
Nominal Output Power	W	1 500	2 000	3 000	4 000	6 000	8 000	
Power Stability	%	< ± 1						
Power Tunability	%	10 – 100						
Modulation Frequency	kHz	0 – 50						
Output Fiber Core Diameter	µm	50			100			
Beam Quality (BPP)	mm x mrad	≤ 2.0	≤ 2.0	≤ 4				
Electrical Specifications								
Operating Voltage	VAC	330 – 430, 3P						
Operating Frequency	Hz	50 / 60						
Power Consumption	W	4 500	6 000	10 000	12 000	18 000	24 000	
Mechanical Specifications								
Dimensions (W x D x H)	mm	820 x 810 x 580	820 x 810 x 580	1098 x 1010 x 1168		1532 x 1098 x 1188		
Output Fiber Length	m	15			20			
Output Connector		QBH						
Weight	kg	165	165	580	630	680	730	
Environmental Specifications								
Operating Temperature	°C	10 – 40						
Operating Humidity	%							
Cooling Method		Water Cooled						
Ingress Protection		IP 65						

Laser Safety

This laser product does NOT comply with IEC 60825-1 or 21 CFR 1040.10 and 1040.11 and is solely intended to be integrated into a laser product certified by the Purchaser. The Purchaser acknowledges that their product must comply with all of the necessary safety regulations and agency compliance requirements before it can be sold to an end user. CorActive assumes no responsibility for the compliance of the Purchaser product into which this laser product is integrated.



This product does not comply with IEC EN60825 or 21 CRF 1040.10 and 1040.11. For use as a system component only

INVISIBLE LASER RADIATION. CLASS 4 LASER PRODUCT
 Avoid eye or skin exposure to direct or scattered radiation
 IEC 60825-1:2014
 ANSI Z136.1-2014



All above specifications are subject to change without notice. BR0055r1.5 - 09/19
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