



Fiber Lasers Technical Data

**convergent**

		CF3000	CF4000	CF6000	CF8000	CF10000
Nominal Output Power		3000 W	4000 W	6000 W	8000 W	10000 W
Power Range		300-3150 W	400-4200 W	600 - 6300W	800-8000 W	1000-10000 W
Power Stability		Typ. ± 1%				
Pulsing Frequency		0 -5 kHz				
Wavelength		1070nm - 1080nm				
Polarization		Random				
Beam Parameter Product (1/e <sub>2</sub> )		2.7 mm*mrad - 3.4 mm*mrad				
Feeding fiber core diameter		100 µm				
Feeding fiber length		20 m or 25 m or 30 m				
Minimum bend radius		200 mm				
Output connector		QBH				
Electronic Shutter On/Off Time		200 ms				
Safety		PLe				
Diode Pointing Laser		Wavelength 635/658 nm Power <1 mW				
Electrical Power Consumption		10 Kw - 12 kW EOL	13 Kw - 16 kW EOL	20 kW - 22 kW EOL	26,7 kW - 29,3 kW EOL	33,3 kW - 36,6 kW EOL
Voltage		360/510 Vac 3P				
Operating Environment (min/max)		5° C / 50° C				
Relative Humidity		< 95% non-condensing				
Laser Cooling 35% Glycol Mix	Cooling Cap.	9 kW*	12 kW*	14 kW*	18,5 kW*	23 kW*
	Pressure	7 bar				
	Flow	35 l/min	40 l/min	50 l/min	80 l/min	90 l/min
	Temp.	20 °C ±1 °C				
Process Fiber Cooling 35% Glycol Mix	Cooling Cap.	0.3 kW				
	Pressure	1.5 bar				
	Flow	2 l/min				
	Temp	27°C - 33°C				
Dimensions W x H x L		600 x 1000 x 900 mm	1035 x 1125 x 830 mm		1143 x 1320 x 1879 mm	
Weight		410 kg	445 kg	480 kg	565 kg	600 kg
External coolant connections		1 inch hose barb (x2)				
Protection Degree (IEC60529)		IP54 (NEMA13 equivalent)**				

\*Additional laser nominal power suggested for power meter cooling during service

\*\*Note: as per IEC 60825-1:2007, EN 60825-1:2007, FDA Regulation 21 CFR Chapter J 1040.10



