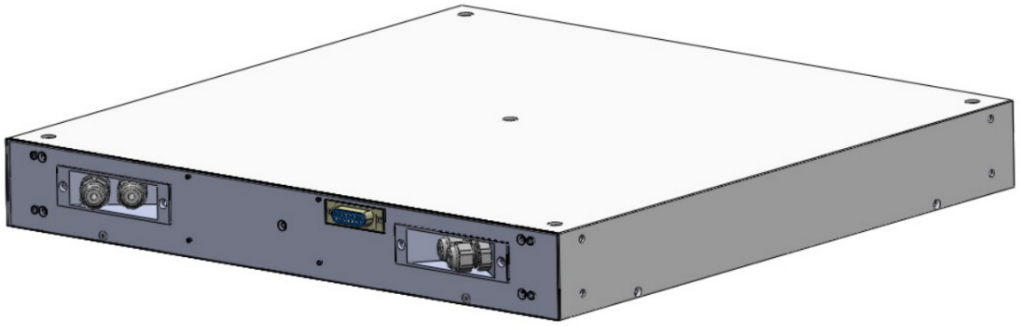
2 kW Fiber Laser Cavity
C-2000-V3



1. Optical Specifications

Item	Specifications	Description	Unit	Notes
1.1	Nominal Output Power	2	kW	The cooling system is operating at 24°C
1.2	Center wavelength	1080 ± 5	nm	
1.3	Bandwidth	< 6	nm	3 dB
1.4	Output Power Stability	< 3 (%rms)	%	100% output for 24 hrs
1.5	Optical efficiency	≥ 75	%	When the laser is operating under full power by using 976 nm pump source
1.6	Laser Polarization	Random	-	
1.7	Mode of Operation	CW	-	
1.8	Beam Quality, M^2	<1.3	-	Connect to a QBH with a length of 10 m and a core/cladding size of 20/400 μm
Note: Specifications subject to change without notice.				

2. Pump Laser Diode Requirements

Item	Specifications	Description	Unit	Notes
2.1	Number of input pump port	4	port	
2.2	Wavelength of pump source	976 ± 3	nm	A set of laser diodes are recommended.
2.3	Maximum power per pump port	750	W	Each laser diode operates at a minimum of 750 W under full driving current.
2.4	Pump fiber size	220/242 (NA=0.22)	μm	
2.5	Pump fiber length	≥1.5	m	Other lengths available upon request

3. Beam Delivery

Item	Specifications	Description	Unit	Notes
3.1	Delivery fiber terminal	Core/cladding size is 20/400 NA=0.065/0.46	-	Default: Bare fiber Caution: Do not operate when the cavity is not connected to the QBH or an end cap.
3.2	Delivery fiber length	≥1	m	Other length available upon request
3.3	Fiber optic termination (optional)	QBH	-	20 μm/400 μm，10 m 30 μm/400 μm，15 m 50 μm/360 μm，20 m Others available upon request

4. Other Features

Item	Specifications	Description	Unit	Notes
4.1	Cooling method	Water Cooling	-	Default: Water cooling plate is not included. External water cooling plate available upon request
4.2	PD & thermistor	Analog signal output	-	
4.3	Commutation interface	RS-232	-	DB15
4.4	External guide light	1	port	Guide light module available upon request
4.5	Dimensions	380×381.5×48	mm^3	
4.6	Operating case temperature	15~25	℃	Cooling temperature
4.7	Transport and storage temperature	-40~75	℃	Case temperature
4.8	Relative humidity	<80	%	Non condensing

5. Mechanical specifications and drawings

Configuration	Fiber laser cavity
Dimensions (mm³)	380×381.5×48