1. Optical characteristics

N	Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
1	Operation Mode			CW / Modulated			
2	Polarization			Random			
3	Nominal Output Power		P_{nom}	1000			W
4	Emission Wavelength	Output power: 1000 W	λ		1070		nm
5	Emission Linewidth	Output power: 1000 W	$\Delta\lambda$		1.5	4	nm
6	Short-term Power Instability	Output power: 1000 W Frequency range: 10 kHz – 20 MHz			1.0	2.0	rms %
7	Long-term Power Instability	Output power: 1000 W Time interval: 4 hrs (T=Constant)			±1	±3	%
8	Switching ON/OFF Time	Output power: 1000 W			30	50	µs
9	Power Modulation Rate	Output power: 1000 W				50	kHz
10	Red Guide Laser Power			0.1	-	1.0	mW

2. Optical output

N	Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
1	Beam Quality	Option 1 – 50 µm core fiber Option 2 – 100 µm core fiber Option 3 – 200 µm core fiber	BPP	1.7 3.4 6.8	2.1 4.2 8.4	2.7 5.4 10.8	mm x mrad
2	Delivery Fiber Length		L		5.0	TBD	m
3	Delivery Cable Bending Radius			80			mm
4	Output Fiber Termination			QBH-compatible connector			

3. General characteristics

N	Characteristics	Min.	Typ.	Max.	Unit
1	Operating Ambient Temperature Range	10		50	°C
2	Humidity	10		95	%
3	Storage Temperature	- 40		+ 75	°C
4	Dimensions, WxDxH:	4U 19” rack mountable 448 x 677 x 177			mm
5	Weight			70	kg
6	Laser “Cold Start” Temperature	20			°C

4. Cooling

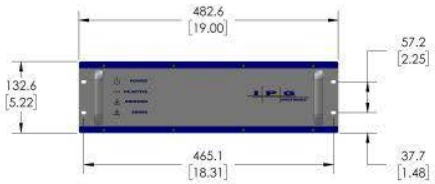
N	Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
1	Method			Tap or DI-water			
2	Water Temperature *always above dew point			21*	22	25	°C
3	Water Pressure			1.5		3.5	bar
4	Water Flow			8			l/min
5	Chiller Cooling Capacity			2			kW

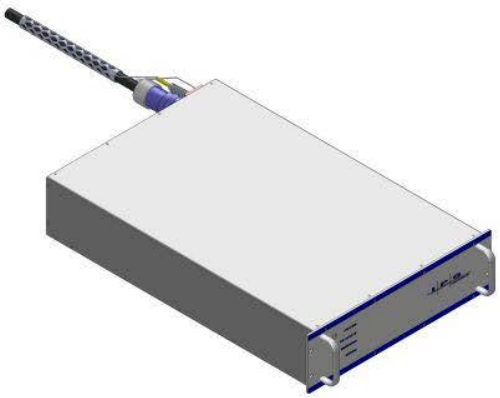
5. Electrical characteristics

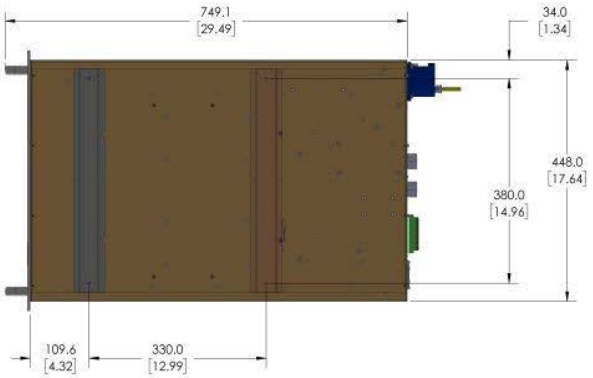
N	Characteristics	Min.	Typ.	Max.	Unit
1	Operating Voltage, single-phase	200-240 VAC, 50/60 Hz			
2	Maximum Power Consumption		2500	3000	W
			2600	3100	VA
3	Control	Analog / RS-232 / Ethernet *			

***** For details please refer to YLR-Series User Guide.

6. External layout







Laser cabinet

7. Beam management accessories

N	Type	Model
1	Attachable Collimator	D25F50, D25F60, D25F85, D50F100, D50F120, D50F160, D50F200
2	Compact Beam Coupler	BC1x112
3	Compact Beam Switch	BS1xN12 N – number of output channels (1, 2, 3 or 4)