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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}	2000			W
4	Output Power Tuning Range			10		105	%
5	Emission Wavelength	Output power: 2000 W	λ	1068		1080	nm
6	Emission Linewidth	Output power: 2000 W	$\Delta\lambda$		3	6	nm
7	Switching ON/OFF Time	Output power: 2000 W			50	100	μ s
8	Output Power Modulation Rate	Output power: 2000 W				5	kHz
9	Output Power Instability	Output power: 2000 W Time interval: 8 hrs (T=Constant)			± 1	± 2	%
10	Red Guide Laser Power				0.4	0.5	mW

2. Optical output

N	Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
1	Delivery Fiber Connector			HLC-8, QBH-compatible			
2	Beam Parameter Product* (86 %)	Delivery fiber core diameter 50 μ	BPP*		2.0	2.2	mm*mrad
3	Beam Parameter Product* (86 %)	Delivery fiber core diameter 100 μ	BPP*		3.5	4.0	mm*mrad
4	Beam Parameter Product* (86 %)	Delivery fiber core diameter 150 μ	BPP*		5.0	6.0	mm*mrad
5	Delivery Fiber Length		L	10	20	TBD	m
6	Delivery Fiber Bending Radius - unstressed - stressed		R	100 200			mm


* Measurement accuracy by means of Primes Focus Monitor ± 10 %

3. General characteristics

N	Characteristics	Min.	Typ.	Max.	Unit
1	Operating Ambient Temperature Range	5		45	$^{\circ}$ C
2	Humidity, Ambient Temperature Range $\leq 40^{\circ}$ C	10		95	%
3	Storage Temperature without water	- 40		+ 75	$^{\circ}$ C
4	Dimensions, WxDxH:	1004 x 804 x 556			mm
5	Weight		160		kg

4. Cooling

N	Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
1	Cooling Method			IPG air/water chiller			

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5. Electrical characteristics

N	Characteristics	Min.	Typ.	Max.	Unit
1	Operating Voltage, 3 phases	400-460 V/3P + PE @ 50-60 Hz			
2	Laser Power Consumption at 2000 W power		5.5	6.1	kW
3	Laser Operation Current at 2000 W power and 400 VAC			10.4	A
4	Laser Starting Current			10	A

6. Laser interfaces

- 6.1. Analogue control: file G22-15803, rev. 24-9-47, Annex 1
- 6.2. Industrial Ethernet: file G22-15803, rev. 24-9-47, Annex 1
- 6.3. Hardwiring: file G22-15803, rev. 24-9-47, Annex 1
- 6.4. Laser ON/OFF modulation input: file G22-15803, rev. 24-9-47, Annex 1&2
- 6.5. Laser Safety: file G22-15803, rev. 24-9-47, Annex 2
- 6.6. Chiller

7. External layout

