

## 1. Optical characteristics

N	Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
1	Operation Mode			CW / pulsed			
2	Polarization			Random			
3	CW Nominal Power		P <sub>nom</sub>	600			W
4	Pulsed Nominal Power			6000			W
5	Pulse duration					10	msec
6	Pulse energy					60	J
7	Output Power Tuning Range			10		105	%
8	Emission Wavelength	Output power: 600 W	$\lambda$	1070		1080	nm
9	Emission Linewidth	Output power: 600 W	$\Delta\lambda$		3	6	nm
10	Switching ON/OFF Time	Output power: 600 W			50	100	$\mu$ s
11	Output Power Modulation Rate	Output power: 600 W				5	kHz
12	Output Power Instability	Output power: 600 W Time interval: 8 hrs (T=Constant)			$\pm 1$	$\pm 2$	%
13	Red Guide Laser Power				0.5	1.0	mW

## 2. Optical output

N	Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
1	Output Fiber Termination			HLC-8, QBH-compatible			
2	Beam Parameter Product (1/e <sup>2</sup> )	Fiber core diameter 50 $\mu$	BPP		2.0	2.5	mm x mrad
3	Fiber Core Diameter			50	TBD		$\mu$ m
4	Delivery Fiber Length		L		5.0	TBD	m
5	Delivery Cable Bending Radius		R	100			mm

## 3. General characteristics

N	Characteristics	Min.	Typ.	Max.	Unit
1	Operating Ambient Temperature Range:	10		40	°C
2	Humidity	10		95	%
3	Storage Temperature without water	- 40		+ 75	°C
4	Dimensions, WxDxH:	604x605x804			mm
5	Weight		110		kg

## 4. Cooling

N	Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
1	Method			Air cooling			

## 5. Electrical characteristics

N	Characteristics	Min.	Typ.	Max.	Unit
1	Operating Voltage, 1 Phase + Protection Ground	180 – 250 VAC, 50/60 Hz			
2	Maximum Power Consumption at 600 W power			2.4	kW
3	Maximum Operation Current at 600 W power and 230 VAC			12	A

## 6. Laser interfaces

- 6.1. Analogue control
- 6.2. Hardwiring
- 6.3. Optional DeviceNet
- 6.4. Optional Interbus
- 6.5. Optional Profibus
- 6.6. Optional Profinet

## 7. External layout

