CTFL-TERA-HP

CW THULIUM FIBER LASER WITH TERAHERTZ LINEWIDTH HIGH POWER

convergent BY LUMIBIRD

Optical Specifications @ 25 °C		CTFL-TERA-HP			
		CST25	CST200	CST200+	CSTHP
Mode of operation		CW or QCW modulated			
Operating wavelength in vacuum (nm)		1927 typ.	1940 typ.		
Average output power (W)	CW	25	200		250
	QCW	25	30	60	120
Nominal peak power (W)		≤ 60	≤ 300	≤ 600	≤ 1200
Pulse energy (J)		0.2	4	6.5	13
Linewidth at FWHM (nm)		4 typ.			
Modulation frequency (Hz)		1 to 2500			
Pulse width (ms)		0.1 to 10			
Polarization		Random (RP)			
Output power stability over 1 hr at contant temperature after warm-up time (%rms)		+/- 1%			
Output power tunability (%)		10 - 100			
Laser guide (LG option)		635 nm, < 2 mW			635 nm or 520 nm, < 3 mW
Output fiber type		25 µm core (N.A 0.09)			100 µm core (N.A 0.22)
Output fiber length[1] (m)		1.5 +/- 10 %			
Output termination		SMA905			SMA905 or D80 connector
Beam parameter at 1/e² (mm x mrad)		0.967			≤ 3.5
Power consumption (W), in CW mode		< 135	< 950		< 1200
Associated platform		CST03	CST01		CHP01, CHP02

Platform Specifications		Platform type			
		CST01	CHP01	CST03	CHP02
Voltage (VDC)		78 + 24		48 + 24	78 + 24
Laser cooling type		Glycol mix (35%)		Air cooled, integrated fans	
Laser cooling characteristics	Cooling cap (W)	800		-	
	Pressure (Bar)	< 6		-	
	Flow (L/min)	> 4		-	
	Temperature (°C)	22 +/- 2		-	
Water cooling interface		10 mm OD quick disconnect fitting (x2)		-	
Dimensions W x H x L (mm)		490 x 127 x 633	440 x 85 x 773	211 x 114 x 278	285 x 550 x 440
Weight (kg), typical		21	26	5	55
Operating case temperature (°C)		5 to 50	15 to 30		
Relative humidity, non condensing (%)		< 95			

[1] Depending on the model, other fiber length available upon special request

C T F L - T E R A - H P - [ ] [ ] [ ] [ ] - R P - 1 9 [ ] [ ] - A M 1 - L G [ ] - [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [ ]

Peak power (W)	
0 0 6 0	60
0 3 0 0	300
0 6 0 0	600
1 2 0 0	1200

Polarization	
R P	Random

Center Wavelength (nm)	
1 9 2 7	1927
1 9 4 0	1940

Amplitude Modulation	
1	Yes

Laser guide	
1	635 nm
2	520 nm

Platform	
C S T 0 1	
C S T 0 3	
C H P 0 1	
C H P 0 2	

Output termination	
S M A	SMA905
D 8 0	D80 connector

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