

CTFL-TERA-HP

CW THULIUM FIBER LASER WITH TERAHERTZ LINEWIDTH HIGH POWER



Optical Specifications @ 25 °C		CTFL-TERA-HP		
		CST200	CST200+	CSTHP
Mode of operation		CW or QCW modulated		
Operating wavelength in vacuum (nm)		1940 typ.		
Average output power at 1940 nm (W)	CW	200		250
	QCW	30	60	120
Nominal peak power (W)		≤ 300	≤ 600	≤ 1200
Pulse energy (J)		4	6.5	13
Linewidth at FWHM (nm)		4 typ.		
Modulation frequency (Hz)		1 to 2500		
Pulse width (ms)		0.1 to 3	0.1 to 6.5	0.2 to 12
Polarization		Random (RP)		
Output power stability over 1 hr at constant 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/e ² (mm x mrad)		0.967		≤ 3.5
Power consumption (W), in CW mode		< 950		
Associated platform		CST01		CHP01

Platform Specifications	Platform type	
	CST01	CHP01
Voltage (VDC)	78 + 24	
Laser cooling type	Glycol mix (35%)	
Laser cooling characteristics	Cooling cap (W)	800
	Pressure (Bar)	< 6
	Flow (L/min)	> 4
	Temperature (°C)	22 +/- 2
Cooling interface	10 mm OD quick disconnect fitting (x2)	
Dimensions W x H x L (mm)	440 x 125 x 670	450 x 170 x 630
Weight (kg), typical	16	22
Operating case temperature (°C)	5 to 50	15 to 30
Relative humidity, non condensing (%)	< 95	
Safety	-	PLe
Protection degree (IEC60529)	IP44	IP54 (NEMA13 equivalent)

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	4	0	-	A	M	1	-	L	G	-	-	-	-	-	-	-	-										
														Polarization		Center Wavelength (nm)					Amplitude Modulation		Laser guide		Platform				Output termination																				
														R	P	Random	1					940					1	Yes	1		635 nm		C		S		T		0		1		S		M	A	SMA905		
Peak power (W)																																																	
0														3		0					0				1		635 nm		C		S		T		0		1		S		M	A	SMA905						
0														6		0					0				2		520 nm		C		H		P		0		1		D		S	0	D80 connector						
1														2		0					0																												



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