

DIRECT DIODE LASER SYSTEM

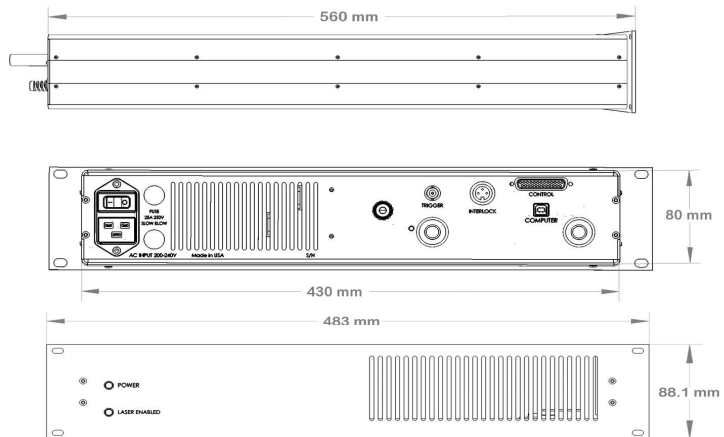
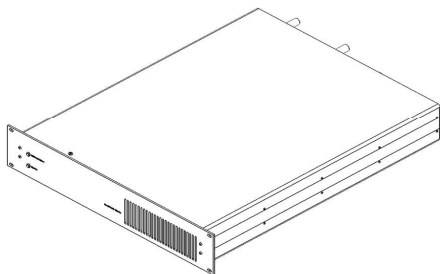
PRODUCT SPECIFICATIONS

Model Number ST-1000-915-800-10-5-LD80-RW1
Description DIRECT DIODE 1000W SPECIFICATION

powered by **nLIGHT**

	Units	Lower Spec	Typical	Upper Spec
Optical				
CW Output Power (in fiber)	W	1000	1008	
Wavelength Centroid	nm	905	915	925
Spectral Width (FWHM)	nm		10	
Power Stability	%			2.5
Fiber Core	um		800	
Fiber NA / Index Type	-		0.22 NA / Step Index	
Pilot Laser	-		640nm <5mW	
Electrical				
Electrical-to-Optical Efficiency	%	40	43	
Max Modulation	kHz			1.0
Rise / Fall Time	us		200	
Supply Voltage	VAC		220	
Power Consumption	W		1680	
External Interface		LAN / USB / DB25 Analog / Facility Interlock		
Mechanical				
Mass ³	kg		28	
Fiber Length	m	4.9	5.0	5.1
Fiber Bend Radius (Active / Storage)	mm		25	
Fiber Jacketing	-	PVC Coated Stainless Steel		
Fiber Termination	-	LD80		
Thermal				
Water Flow Rate ⁴	l/min	16		18
Pressure Drop	PSI			20
Ambient Air Temperature ²	°C	5		35
Water Temperature ⁵	°C	5	17	25

Outline Drawing



Notes

- ¹Export Control Classification Number (ECCN) as defined by the Export Administration Regulations (EAR)
- ²Operating temperature defined by the water temperature and ambient temperature. Acceptable operating range is 20 - 35C, but performance may vary
- ³Does not include mass of fiber
- ⁴Clean water with 100um filter
- ⁵Avoid condensation by controlling water temp at least 3°C above ambient air dew point

ECCN: EAR99 ¹



This Product does NOT comply with IEC 60825-1 or 21CFR1040.10/21CFR1040.11 and is to be integrated into a final system that meets with the safety regulation of the end customers respective country. It is the integrators responsibility to insure compliance before being sold to the final user.



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