Polarium-VLMA

OPTICAL ENGINES
AS9100D/ISO9001

NEW

Nanosecond Pulsed Laser System

PROVE WHAT'S POSSIBLE.

By maintaining an all-fiber construction, CPTEC eliminates the need for alignment and prevents contamination of critical components. This reduces the effects of thermal lensing and mechanical sensitivity in comparison to bulk amplifiers while also minimizing self-phase modulation.

Based on Exail's VLMA fiber (IXF-VLMA-40-220-PM-YB-V1), CPTEC leverages the excellent ultrafast performance and mode-filtering qualities of the gain fiber. The all-fiber design means there are no free-space input optics to worry about, achieving true "splice-and≡go" operation.

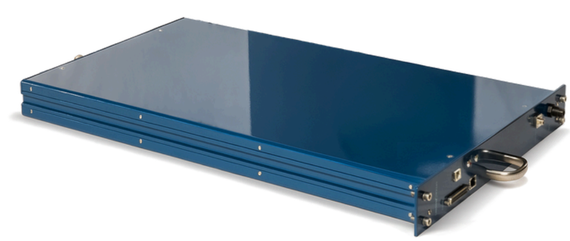
Key Features

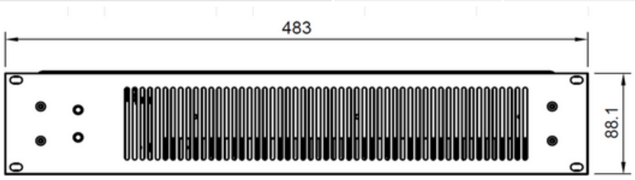
- PL'e Safety Classification
- Seed Dropout Protection
- Seed Amplification
- Air and Water Cooled Options
- Clean, Accessible GUI for Seamless Operation

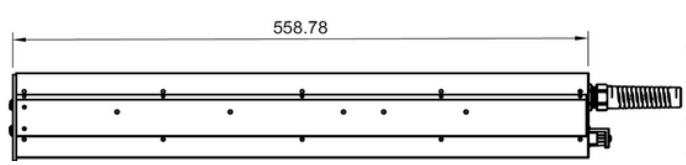
Optical	Unit	Specification
Center Wavelength	nm	1064 / 1940
Air-Cooled CW Power	W	<150
Water-Cooled CW Power	W	<400
Pulse Energy	mJ	<5
Pulse Length	ns	1-50
Peak Power	kW	950
Beam Quality	M^2	<1.2
Beam Pointing Stability	urad	<10
Collimated Output	mm	2.8
Seed Connector		FC/APC
Seed Input Power	mW	10-100
Electrical		
Supply Voltage	VAC	100 - 240
Power Consumption	W	<750
Enviromental		
Operating Temperature	°C	10 - 40
Storage Temperature	°C	-20 - 60
Weight	kg	<25

Applications

- Ultrafast Amplifiers
- Nonlinear Microscopy
- LIDAR / LADAR
- Digital Laser Array
- High Energy CBC Array
- Materials Surface Processing







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