



High Energy Solid State Lasers

HiEn PuLS X5400-YLF

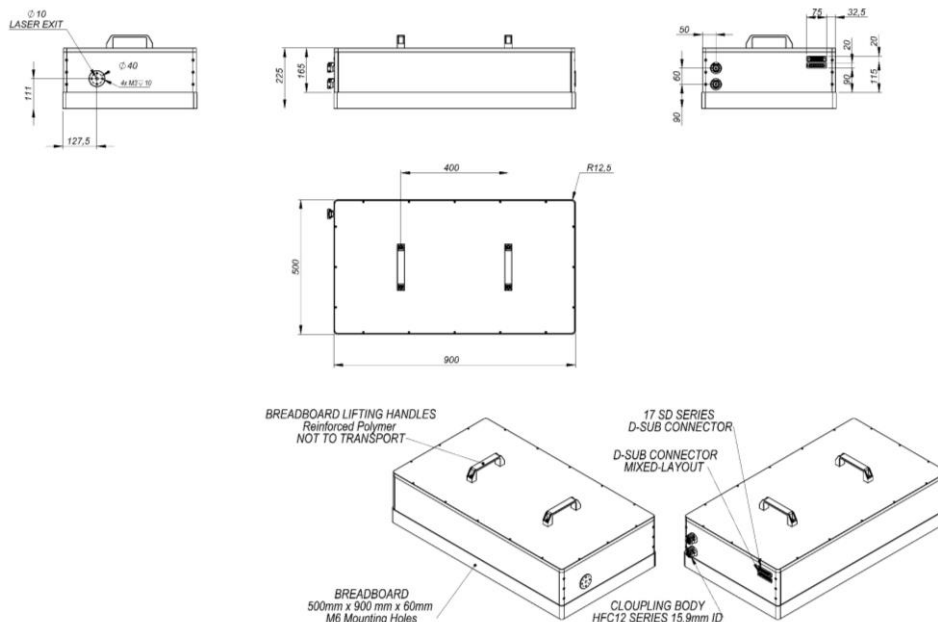
Features:

- Long lifetime
- High reliability
- Low thermal resistances
- Wide storage temperature +5°C to + 60°C
- No SMILE effect

Suitable for:

- Material processing
- LIBS/RAMAR/IR Spectroscopy
- OPO/DYE/Ti: Sa Laser pumping
- LIDAR & WIND LIDAR

HiEn-PuLS-X5400-YLF | 1 bar package



HiEn-PuLS-X5400

Product specification are subject to change without notice.
For complete details, please contact your local MONOCROM sales representative.

UNE EN ISO 9001:2015

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HiEN PULS X5400-YLF | TECH SPECIFICATIONS

	HESSL-15400	HESSL-25400	HESSL-35400
Laser Parameters			
Fundamental Wavelength		1053 nm	
Linewidth		< 100 pm	
Repetition Rate		1 – 100 Hz	
Energy Output at 1053 nm ⁽¹⁾	< 200 mJ	< 500 mJ	< 1000 mJ
Energy Output at 527 nm	< 120 mJ	< 300 mJ	< 600 mJ
Energy Output at 351 nm	< 70 mJ	< 175 mJ	< 350 mJ
Pulse Width		4 – 25 ns	
Power Stability	< 1% @ 8 h	< 1.5% @ 8 h	< 2% @ 8 h
Pulse to Pulse Stability		< 5% rms	
Beam Parameters			
Divergence	> 5 mrad	> 6 mrad	> 7 mrad
Beam Quality M ²	> 3	> 5	> 7
Beam Diameter		6 mm	
Beam Ellipticity		> 95%	
Pointing Stability		50 µrad	
Polarization Ratio		100:1	
Jitter		< 1.5 ns	
Operating Parameters			
Diode Lifetime ⁽⁴⁾		> 10 ⁹	
Coolant Flow	< 1.5 l/min	< 3.0 l/min	< 4.5 l/min
Coolant Pressure		< 3.5 bar	
Coolant		90% Distilled water + 10% ethylene glycol	
Warm Up Time		< 2 min	
Operating Temperature		20 – 35 deg	
Additional Parameters			
Weight (Laser Head)		< 30 Kg	
Weight (Electronics)		< 10 Kg	
Laser Head Dimensions (L x W x H)	600 x 300 x 150 mm	600 x 450 x 150 mm	900 x 450 x 150 mm
Communications		RS232 / USB	
External Trigger		IN / OUT	
Laser class product (EN-60825)		4	

1. Per pulse
2. Reduced life time if use in conflict to the nominal operational condition

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