



High Energy Solid State Lasers

HiEN PULS X5400-YAG

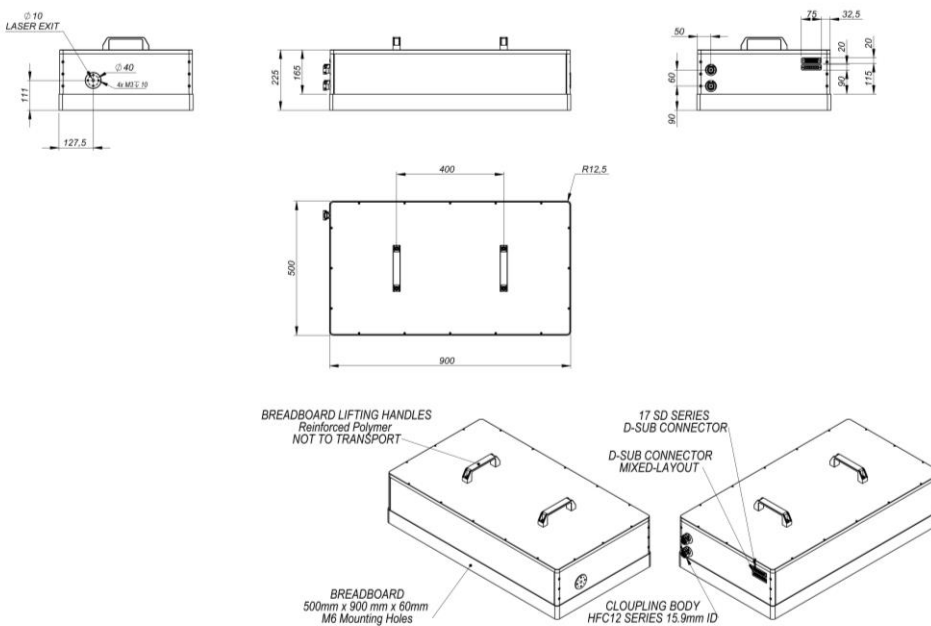
Features:

- 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-YAG I 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-YAG I TECH SPECIFICATIONS

	HESSL-15400	HESSL-25400	HESSL-35400	HESSL-45400	HESSL-55400
Laser Parameters					
Fundamental Wavelength ⁽¹⁾			1064 nm		
Linewidth			< 100 pm		
Repetition Rate			1 – 300 Hz		
Energy Output at 1064 nm ⁽²⁾	< 100 mJ	< 250 mJ	< 500 mJ	< 750 mJ	< 1000 mJ
Energy Output at 532 nm	< 60 mJ	< 150 mJ	< 300 mJ	< 375 mJ	< 600 mJ
Energy Output at 355 nm	< 35 mJ	< 85 mJ	< 175 mJ	< 260 mJ	< 360 mJ
Pulse Width			4 – 25 ns		
Power Stability	< 1% @ 8 h	< 1.5% @ 8 h	< 2% @ 8 h	< 1% @ 8 h	< 1.5% @ 8 h
Pulse to Pulse Stability			< 5% rms		
Beam Parameters					
Divergence	> 5 mrad	> 6 mrad	> 7 mrad	> 7 mrad	> 7 mrad
Beam Quality M ²	> 3	> 5	> 7	> 7	> 7
Beam Diameter			6 mm		
Beam Ellipticity			> 95%		
Pointing Stability			50 µrad		
Polarization Ratio			100:1		
Jitter			< 1.5 ns		
Operating Parameters					
Diode Lifetime ⁽³⁾			> 10 ⁹		
Coolant Flow	< 1.5 l/min	< 3.0 l/min	< 4.5 l/min	< 6.0 l/min	< 7.5 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 mm 300 mm 150 mm	600 mm 450 mm 150 mm	900 mm 450 mm 150 mm	1000 mm 450 mm 150 mm	1100 mm 450 mm 150 mm
Communications			RS232 / USB		
External Trigger			IN / OUT		
Laser class product (EN-60825)			4		

1. Per pulse

2. Specifications at 25°C, at the beginning of the lifetime

3. Cooling adaptation are available Reduced life time if use in conflict to the nominal operational conditions

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