

Nd:YAG passively q-switched DPSS lasers

WAVEGUARD-E



FEATURES:

Robust and compact design Internal and external TLL triggering Laser controller with USB or RS232 interface OEM version available Adjustable repetition rate

APPLICATIONS:

Material processing and micromatching LIBS Marking LIDAR and Laser Ranging Biophotonics



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Laser characteristics:

| Wavelenght | 1064 nm ¹ |
|------------------------------|---------------------|
| Wavelenght tolerance | ± 1 nm |
| Repetition rate | 100Hz |
| Pulse energy | > 400 µJ |
| Average output power | 40 mW |
| Energy stability (5 hr) | <1% |
| Puse duration | < 1 NS |
| Polarization contrast | > 100:1 |
| Beam diameter at exit window | <1 mm |
| Beam quality | M ² <1,5 |
| Beam divergence | <5 mRad |
| Beam profile | TEM _{oo} |

¹additional harmonics modules for 532 nm, 355 nm or 266 nm wavelengts available on request

Physical dimensions:

| Laser module dimensions | 170 x 103 x 64 mm |
|-------------------------|-------------------|
| Laser driver dimensions | 164 x 105 x 44 mm |

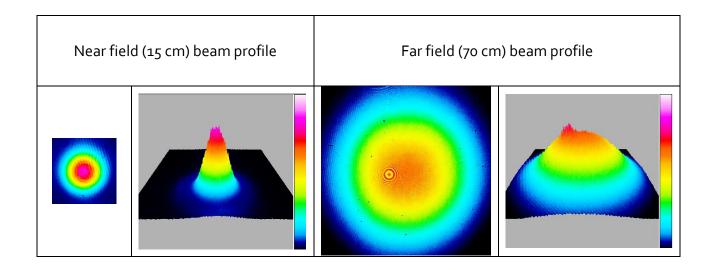
Utility requirements:

| Pump current | 8 - 10 A |
|---------------------|-------------------------------|
| Electric | 100-240 V AC, 50/60 Hz, 1.4 A |
| Working temperature | 20 − 28 °C |
| Cooling | TEC element + air cooling |

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Laser beam profile data:

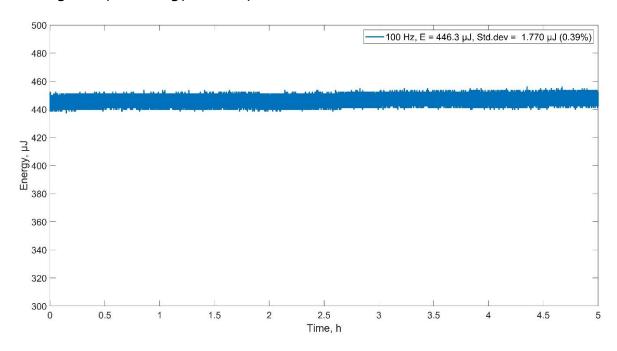


Laser pulse duration data:

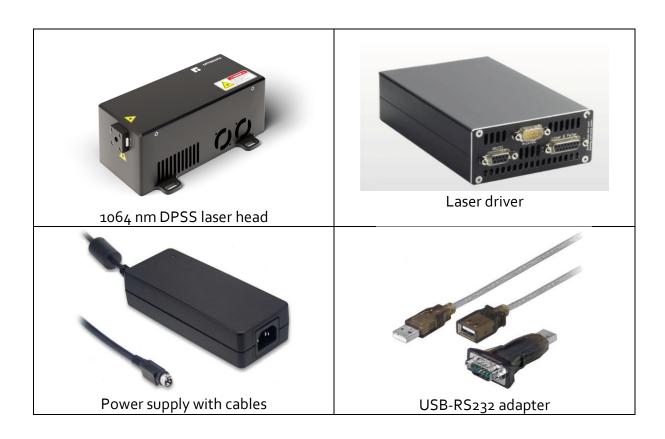




Average output energy stability:



Necessary components to run the laser:

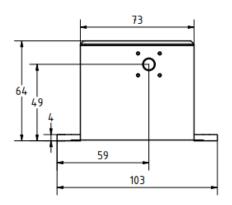


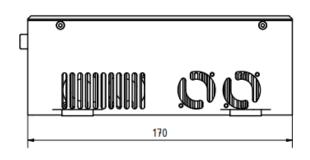


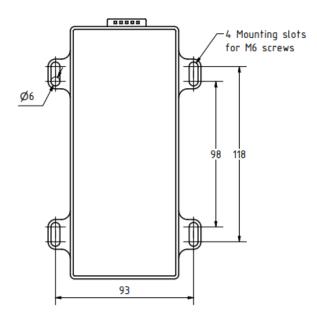
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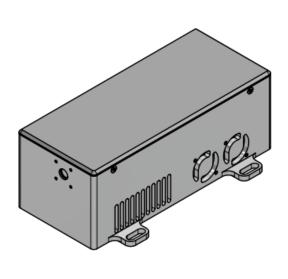


Laser head schemes:









Laser safety class:

