



FREQUENCY DOUBLED, DIODE-PUMPED Nd:YAG LASER MODEL ILM-15TQG

An innovative laser optics design, combined with an industrial-grade power supply, results in an extraordinarily reliable and rugged diode-pumped Nd:YAG laser for industrial use. A totally solid-state laser for trouble-free manufacturing!

- **Efficient diode optical pumping for improved performance and reliability**
- **High TEM00 power visible output from small diameter, diffraction limited beam**
- **Q-switched pulse stability 1% rms up to 30 kHz**
- **Efficient water/water heat exchanger cooling system**
- **Uses intracavity SHG assembly with LBO harmonic generator crystal**
- **"CE Mark" Certified; this is a CDRH Class IV laser product**

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| Wavelength: | 532 nm |
| Transverse Mode: | TEM00 mode |
| Beam Diameter, nominal: | 1.0 mm |
| Beam Divergence (full angle), nominal: | 1.5 mRad |
| Polarization: | Linear |

Q-switched Performance:

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|----------------------------|------|-------|------|-------|
| Frequency (kHz): | 5 | 10* | 20 | 30 |
| Average Power (W): | 7.0 | 8.0* | 7.0 | 6.5 |
| Pulse Energy (mJ): | 1.4 | 0.8 * | 0.35 | 0.217 |
| Pulse Width (ns), nominal: | 90 | 120* | 180 | 235 |
| Peak Pulse Power (kW): | 15.6 | 6.7* | 1.9 | 0.92 |

Mechanical:

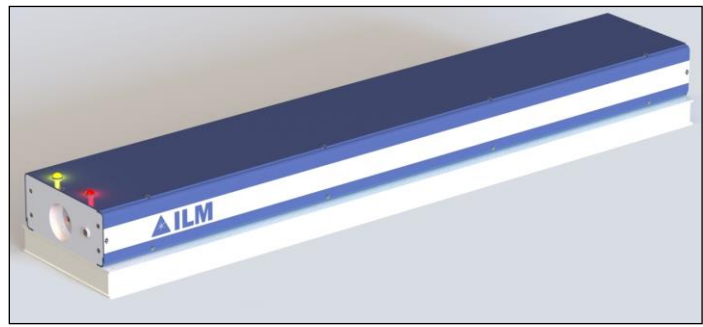
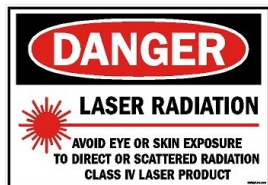
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|---------------------------------|-----------------------|
| Optical Table Length, standard: | 1219 mm |
| Power Station Dimensions: | 876H x 521W x 470D mm |

Electrical Power:

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|----------------------|---|
| Recommended Service: | 220 +/- 10% VAC, 1-phase, 50/60 Hz, 20A |
| Average Consumption: | 2 kW, maximum |

Water:

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| Internal, water/water cooled: | City water cooled, 8 L/m @ 16° C max temp. Self-contained refrigerated chiller optionally available. |
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*Laser is specified at 10kHz, all other values are typical.