



FREQUENCY DOUBLED, DIODE-PUMPED Nd:YAG LASER MODEL ILM-100MQG

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 power output from small diameter, low divergence 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**

Wavelength: 532 nm
 Transverse Mode: Multimode
 Beam Diameter, nominal: < 2.0 mm
 Beam Divergence (full angle), nominal: 4.0 mRad
 Polarization: Linear

Q-switched Performance:

Frequency (kHz):	5	10*	20
Average Power (W):	40	50*	48
Pulse Energy (mJ):	8.0	5.0*	2.4
Pulse Width (ns), nominal:	150	200*	325
Peak Pulse Power (kW):	53.3	25*	7.4

Mechanical:

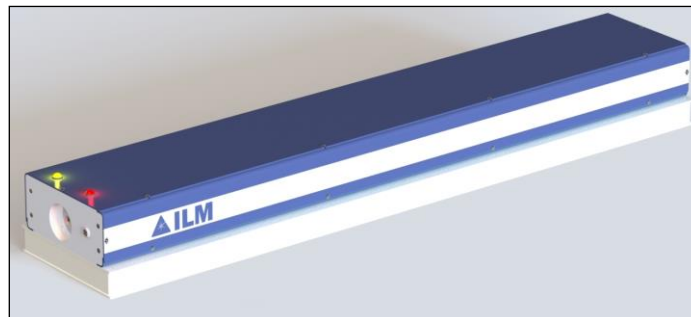
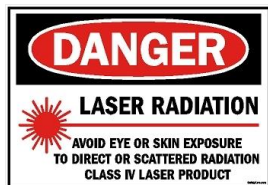
Optical Rail Length, standard: 1219 mm
 Power Station Dimensions: 876H x 521W x 470D mm

Electrical Power:

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

Water:

Internal, water/water cooled: City water cooled, 8 L/m @ 16° C max temp. Self-contained refrigerated chiller optionally available.



*Laser is specified at 10kHz, all other values are typical.

ILM follows a policy of continuous improvement. Specifications are subject to change without notice.