FREQUENCY DOUBLED, DIODE-PUMPED Nd:YAG LASER

MODEL ILM-200MQG

An innovative laser optics design, combined with an industrial-grade power supply, results in a 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:	5 mRad
Polarization:	Linear

Q-switched Performance:

Frequency (kHz):	5	10*	20	30	40	50
Average Power (W):	80	100*	100	90	85	80
Pulse Energy (mJ):	16	10*	5	3.2	2.3	1.7
Pulse Width (ns), nominal:	90	100*	150	250	300	350
Peak Pulse Power (kW):	178	100*	33.3	12.0	7.1	4.6

Mechanical:

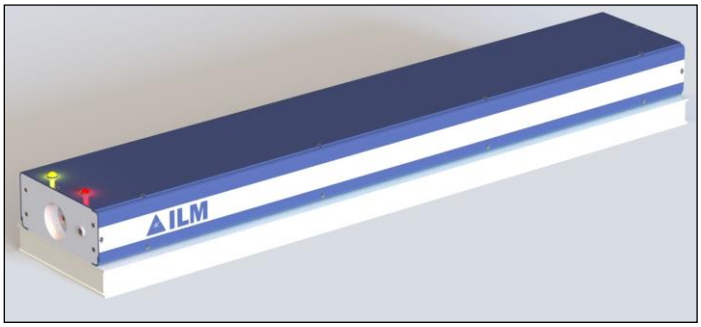
Optical Rail Length, standard:	1219 mm
Power Station Dimensions:	876H x 521W x 470D mm

Electrical Power:

Recommended Service:	220 +/- 10% VAC, 1-phase, 50/60 Hz, 20A
Average Consumption:	2.8 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.