



FREQUENCY DOUBLED, DIODE-PUMPED Nd:YAG LASER MODEL ILM-200MQG-DUAL

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! The DUAL configuration doubles average power, adding flexible controls for dual modulation.

- **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 (Horizontal & Vertical combined)

Q-switched Performance:

Frequency (kHz):	5	10*	20	30	40	50
Average Power (W):	160	200*	200	180	170	160
Pulse Energy (mJ):	32	20*	10	6.4	4.6	3.4
Pulse Width (ns), individual:	90	100*	150	250	300	350
Peak Pulse Power (kW):	356	200*	66.6	24.0	14.2	9.2

Mechanical:

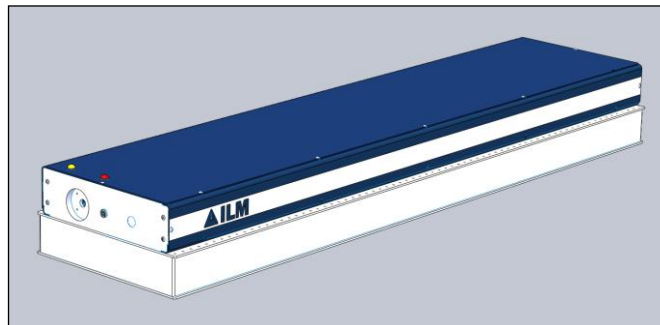
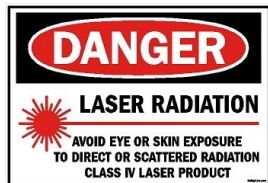
Optical Rail Length, standard:	1829 mm
Power Station Dimensions (2X):	876H x 521W x 470D mm

Electrical Power (2X):

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

Water (2X):

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.