



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!

Features:

- 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
- Customer interfaces include: Ethernet, serial, wireless
- "CE Mark" Certified; this is a CDRH Class IV laser product

Applications:

- Aerospace
- Diamond Cutting
- Medical
- Semiconductor
- Scientific
- Entertainment

Beam Attributes	
Wavelength	532 nm
Transverse Mode	Multimode
Beam Diameter, nominal	2.0 mm (before beam expansion)
Beam Divergence (full angle), nominal	≤ 4 mRad (before beam expansion)
Polarization	Linear

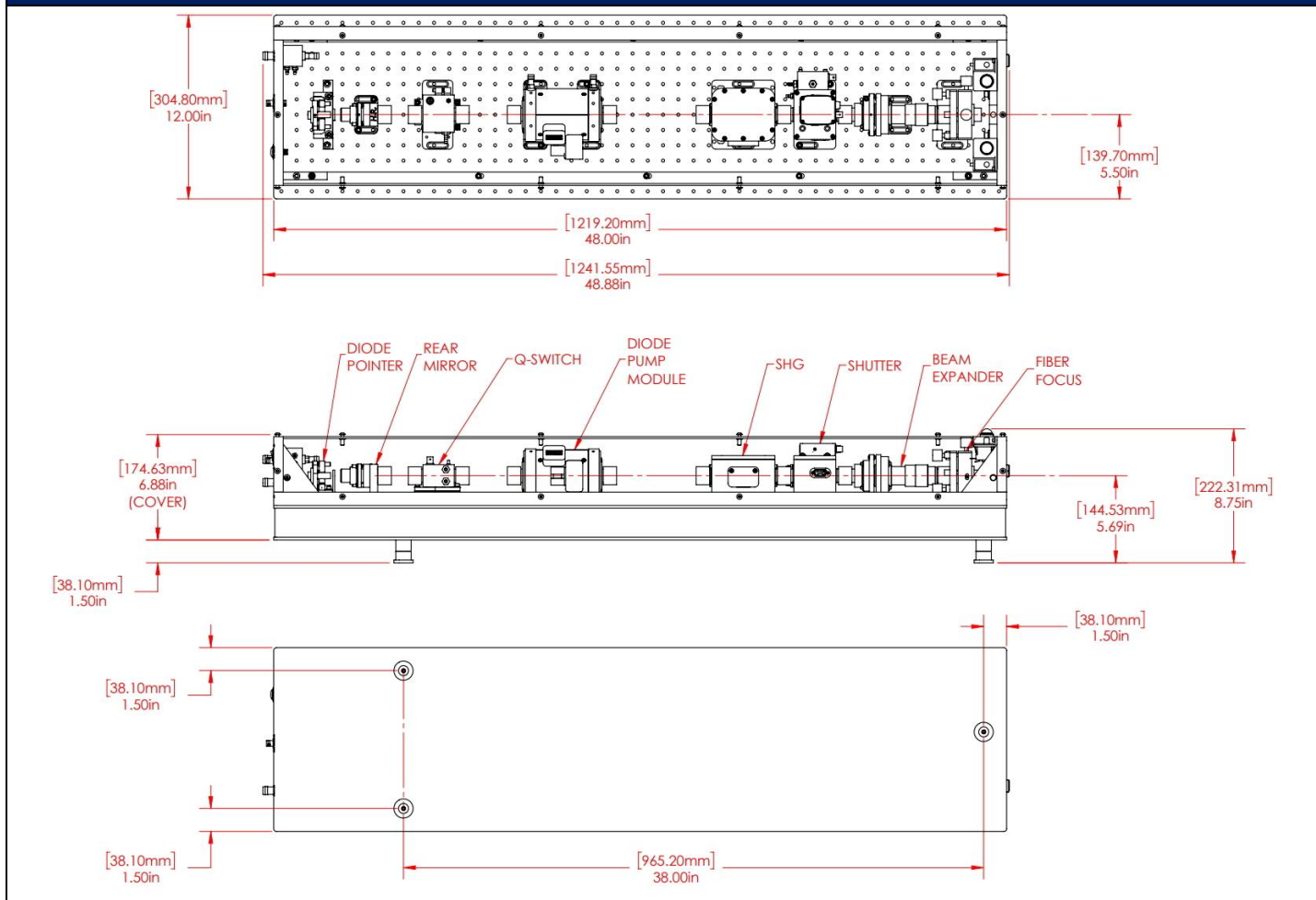
Specifications			
Frequency (kHz):	5	10*	20
Average Power (W):	40	50*	48
Pulse Energy (mJ):	8.0	5.0*	2.4
Pulse Width (ns), nominal:	150	200*	325
Peak Pulse Power (kW):	53.3	25*	7.4
Optical Resonator Length, standard	1219 mm		
Power Station Dimensions	700H x 507W x 460D mm		
Recommended Service	220 +/- 10% VAC, 1-phase, 50/60 Hz, 20A		
Average Consumption	2 kW, maximum		
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.

Resonator Dimensions



Power Station / Cooler Dimensions

