



HIGH POWER, DIODE-PUMPED CW Nd:YAG LASER

MODEL LDP-50MQ

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 from small diameter, low divergence beam
- Highly circular multimode beam profile
- Q-switched pulse stability < 3 % rms up to 10 kHz
- Efficient water/water heat exchanger cooling system (self-contained chiller optionally available)
- "CE Mark" Certified; this is a CDRH Class IV laser product

Wavelength	1064 nm
Transverse Mode	Multimode
Beam Diameter, nominal	< 2.0 mm
Beam Divergence, nominal	5 mr
Polarization	Random

CW (continuous) performance:

Output Power	50 Watts
Stability	1 % rms

Q-switched performance:

Frequency (kHz)	1	10
Average Power (W)	8	35
Pulse Width (ns)	100	200
Peak Pulse Power (kW)	80	20

Mechanical

Optical Rail Length, (options dependent)	100 cm standard (options dependent)
Power Station Dimensions	83H x 60W x 85D cm

Electrical Power

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

Cooling

Internal, water/water cooler	City water cooled, 4 l/m @ 15° C max temp Self-contained, refrigerated chiller optionally available. 1-kW heat vented into room.
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Environmental

Temperature, Operating	18 - 30°C
Temperature, Storage	5 - 60°C
Humidity	10 - 90%, non-condensing



Lee Laser follows a policy of ongoing continuous improvement. Specifications are subject to change without notice.

