



HIGH POWER, DIODE-PUMPED CW Nd:YAG LASER

MODEL LDP-400MQ 5-mm YAG Laser Rod

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
- Highly circular multimode beam profile
- Q-switched pulse stability 5 % peak-to-peak up to 10 kHz
- Efficient water/water heat exchanger cooling
- "CE Mark" Certified; this is a CDRH Class IV laser product

Wavelength	1064 nm
Transverse Mode	Multimode
YAG Rod Diameter	5 mm
Beam Diameter, nominal	3.5 mm
Beam Divergence (full angle), nominal	15 mr
Polarization	Random

Q-switched performance

Pulse Rate, kHz	CW	5	10 *	25	50
Average Power, Watts	400	250	300 *	325	350
Pulse Energy, mJ		50	30 *	13	7
Pulse Width, ns (nominal)		70	100 *	140	230
Peak Pulse Power, kW		714	300 *	93	30.4

Mechanical

Optical Rail Length, standard	152.4 cm standard
Power Station Dimensions	77H x 60W x 85D cm (2X)

Electrical Power

Recommended Service	220 ± 10% VAC, 1-phase, 50/60 Hz, 30A (each)
Maximum Consumption	2.8 kW (each)

Cooling

Internal, water cooled chiller	City water cooled, 16 l/m at 15° C max temp (each)
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* Laser is specified at 10 kHz; all other values are typical.

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

