



HIGH POWER, DIODE-PUMPED CW Nd:YAG LASER

MODEL LDP-100MQ Multimode

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 from small diameter, low divergence beam
- * Highly circular multimode beam profile
- * Q-switched pulse stability < 3 % rms up to 10 kHz
- * 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) and Q-switched (pulsed) performance:

Pulse Frequency (Hz)	CW	300	1-K	1.2-K	10-K
Average Power (W)	100	6	20	24	70
Pulse Width (ns)		90	90	90	200
Peak Pulse Power (kW)		222	222	222	35

Mechanical

Optical Rail Length, Options dependent	100 cm
Power Station Dimensions	83H x 60W x 86D cm (air cooled) 77H x 60W x 86D cm (water/water)

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, 8 l/m @ 15° C max temp Self-contained, refrigerated chiller optionally available. 1-kW heat vented into room.
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