



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	6 mr
Polarization	Random

CW (continuous) and Q-switched (pulsed) performance:

Pulse Frequency (kHz)	CW	10
Average Power (W)	100	70
Pulse Width (ns)		200
Peak Pulse Power (kW)		35

Mechanical

Optical Rail Length, standard	100 cm standard (Options Dependent)
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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